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ACIDIC PRECIPITATION IN ONTARIO STUDY

DAILY PRECIPITATION CHEMISTRY LISTINGS

1988

MAY 1990

Ontario

Environment
Environnement

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1988

Report prepared for:
Air Resources Branch
Ontario Ministry of the Environment

Report prepared by:
A.P.I.O.S. Coordination Office
Ontario Ministry of the Environment

MAY 1990

RECYCLABLE

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PART I

INTRODUCTION

INTRODUCTION

The data listed herein are a summary of the 1988 results acquired from the APIOS daily precipitation sampling network. All data presented in this report have been screened for validity. Remarks and qualifications have been appended to records, and/or results where necessary. The screening procedure involved checking each record for chemical analysis integrity (e.g., ionic balance, observed vs. theoretical conductance). Gross limit checks were applied to the results. Upper limits were determined as M + 2S where median (M) and scale (S) represent robust estimates of the mean and standard deviation respectively. Scale of the distribution was determined from interquartile distance, i.e. S = 0.74 (3rd quartile - 1st quartile) based upon logrithmatically transformed results. In a situation where the distribution is significantly bounced by reported detection limits, S may be estimated as follows, S = 1.48 (3rd quartile - 2nd quartile). Lower gross limits were specified by the above method except for those parameters with minimum values at or near the detection limit (Mg, K and Na). For these parameters a lower gross limit of zero was utilized. The data were also screened for outliers statistically by applying the Dixon Ratio test to the highest and lowest values observed in each region on a daily basis. Outliers were determined at the 95% level of confidence. Records and/or results deemed unreliable were flagged not deleted. Detailed description of the validation procedures as applied to this data set is available from the Ministry upon request.

Station Identification

The station identification is defined by four descriptive fields (e.g. Dorset/Daily/Aerochem #8). The first field refers to the sampling location. The second and third fields describe the sampling interval and the instrumentation used respectively. The last numeric field refers to the index code utilized on the location map.

Daily Precipitation Chemistry Listings

Sample type, as coded in the data listings, represents the best guess of the type of event which was sampled. All chemical analyses were done on unfiltered sampler. Lab pH entries represent pH measurements at the main MOE Laboratory in Toronto while field pH entries represent measurements at regional laboratories. Remarks codes (e.g., U,A) appended to individual results are defined in a lager section. The tabulated results for "Free H" were calculated from the reported Lab pH. Total hydrogen results, reported as "Total H", represent either a gram analysis titration or a titration of the sample with NaOH to an end point pH of 8.3.

Calculation of Equivalent Precipitation Depth (mm)

$$\text{Equivalent Precipitation Depth (mm)} = \frac{\text{Volume Collection (ml)} \times 15.6}{1000}$$

Calculation of Observed Sampling Efficiency

$$\%\ \text{Efficiency} = \frac{\text{Equivalent Precipitation Depth (mm)} \times 100\%}{\text{Gauge Depth (mm)}}$$

If the sample collection efficiency is less than 50% or greater than 120% and if the field comment codes which affect sample collection efficiency (i.e. "F", "G", "H", "I", "J", "K", "L", "P" and "M") is appended to the sample record, then the sample collection efficiency is flagged as unreliable.

Field Comment Code Index

A - Insect in sample
B - Leaves in sample
C - Particulates in sample
D - Fibres in sample
E - Sample not submitted
F - Sampler malfunctioned
G - Sample spilled or leaked
H - Volume incorrect
I - Event(s) missed
J - Wet side open when not precipitating
K - No precipitation collection
L - Part of event missed
M - Dry side open when precipitating
P - Gauge depth incorrect
Q - Other

Office Comment Code Index

C - Poor calculation vs. observed conductance comparison

J - pH Large
H - Poor calculated vs. observed pH comparison
M - Poor ionic balance
N - Abnormal sample collection
T - Free H^+ exceeds total H^+

Y - Collection sample remained in excess of 24 hours with event(s) only occurring in the first 24 hours

Y2 - Sampling period equal to two days
Y3 - Sampling period equal to three days
Y4 - Sampling period equal to four days
Z - Non-standard collection period with one one or more events collected after 24 hours

Results Remark Code Index

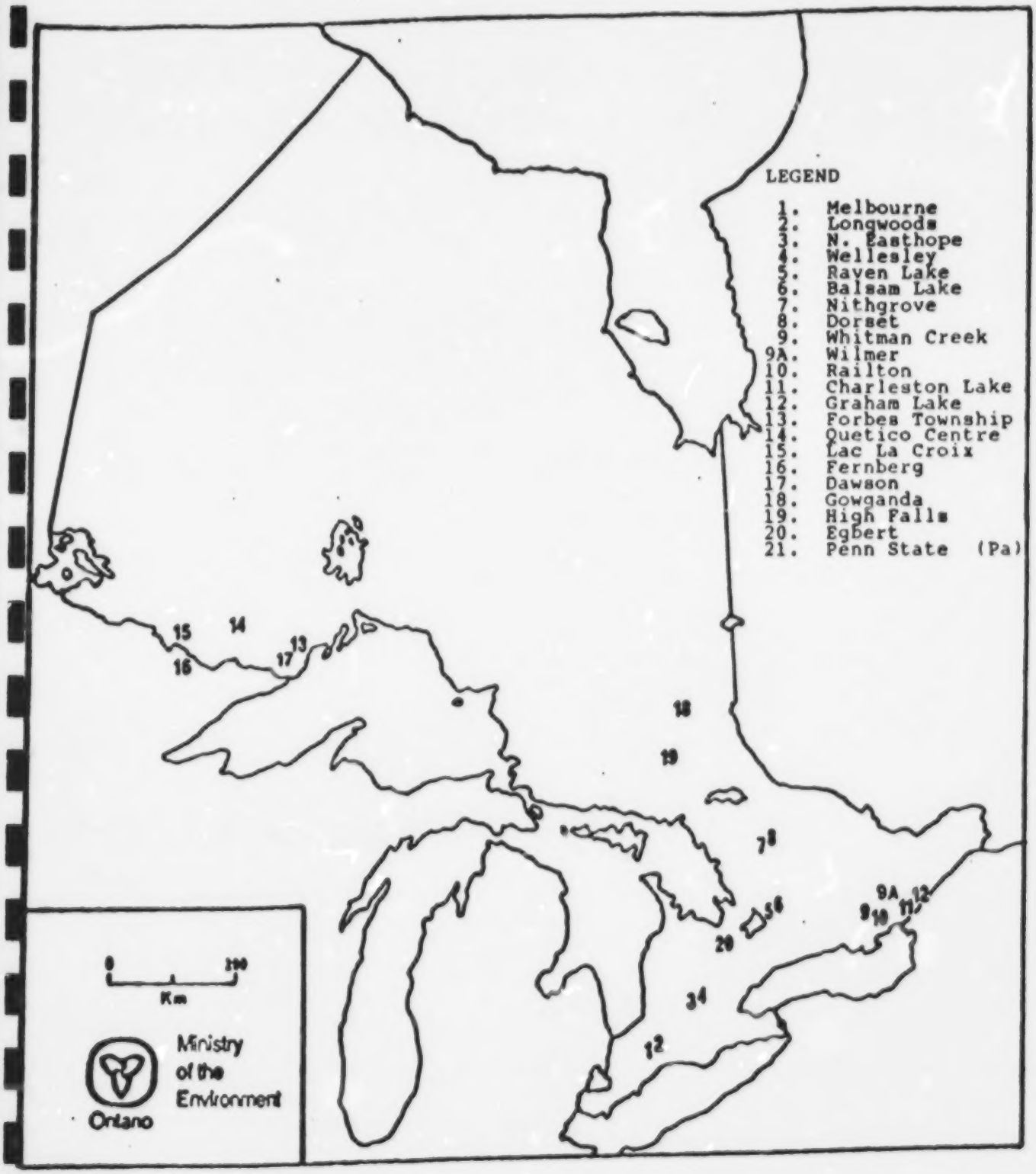
> - actual results greater than value reported
< - actual result less than value reported
<T - actual result less than criterion of detection
<W - no response, minimum possible results reported
A - approximate value
U - unreliable result
LG - exceedance of Lower Gross Limit Checks
UG - exceedance of Upper Gross Limit Checks
D - outlier of Dioxin Ratio Test
B - exceedance of Gross Limit Checks and Outlier of Dioxin Ratio Tests

PART II

STATION DESCRIPTION AND LOCATION MAP

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS-ACIDIC PRECIPITATION IN ONTARIO STUDY
DAILY PRECIPITATION SITES

STATION ID	MOE REGION	STATION NAME	ELEV (M)	LATITUDE (NORTH)	LONGITUDE (WEST)	UTM GRID CO-ORDINATES (NORTHING)	(EASTING)
000002-02-01-1011	SOUTHWESTERN	LONGWOODS	239	42°53'03"	81°28'50"	4747849	460756
000002-02-01-1021	SOUTHWESTERN	MELBOURNE	213	42°47'12"	81°33'27"	4737061	454401
000002-02-01-1031	SOUTHWESTERN	NORTH EASTHOPE	375	43°24'22"	80°53'45"	4805705	508434
000002-02-01-2011	SOUTHWESTERN	WELLESLEY	344	43°28'05"	80°45'33"	4812606	519481
000002-02-01-2031	SOUTHWESTERN	EGBERT	253	44°13'57"	79°46'53"	4898202	597322
000002-02-01-3011	CENTRAL	DORSET	320	45°13'25"	78°55'51"	5009657	662451
000002-02-01-3021	CENTRAL	NITHGROVE	325	45°12'03"	78°04'12"	5009221	730127
000002-02-01-3031	CENTRAL	BALSAM LAKE	259	44°37'45"	78°51'22"	4943776	670063
000002-02-01-3041	CENTRAL	RAVEN LAKE	274	44°36'40"	78°54'43"	4941655	665686
000002-02-01-4011	SOUTHEASTERN	CHARLESTON LAKE	92	44°29'50"	76°02'40"	4927414	416963
000002-02-01-4021	SOUTHEASTERN	RAILTON	152	44°22'34"	74°34'45"	4913518	533527
000002-02-01-4031	SOUTHEASTERN	GRAHAM LAKE	130	44°34'50"	76°51'45"	4940930	749090
000002-02-01-4081	SOUTHEASTERN	GOLDEN LAKE	160	45°36'48"	77°12'03"	5053226	328397
000002-02-01-4101	SOUTHEASTERN	WILMER	125	44°26'23"	76°31'50"	4921637	378195
000002-02-01-5061	NORTHEASTERN	GOWGANDA	343	47°39'04"	80°46'32"	5277329	516647
000002-02-01-5171	NORTHEASTERN	HIGH FALLS	215	46°22'55"	81°32'43"	5136412	458068
000002-02-01-6051	NORTHWESTERN	FERNBERG	506	47°56'51"	91°29'26"	5311349	612714
000002-02-01-6071	NORTHWESTERN	QUETICO CENTRE	420	48°24'44"	91°12'08"	5363461	633036
000002-02-01-6131	NORTHWESTERN	DAWSON	381	48°33'38"	89°38'60"	5381779	304475
000002-02-01-7011	QUEBEC	SUTTON	243	45°04'35"	72°40'35"	4993846	682898
000002-02-01-7021	PENNSYLVANIA	PENN. STATE	120	40°47'18"	77°56'47"	4519229	251390


LEGEND
1. Melbourne
2. Longwoods
3. N. Easthope
4. Wellesley
5. Raven Lake
6. Balsam Lake
7. Nithgrove
8. Dorset
9. Whitman Creek
9A. Wilmer
10. Railton
11. Charleston Lake
12. Graham Lake
13. Forbes Township
14. Quetico Centre
15. Lac La Croix
16. Fernberg
17. Dawson
18. Gowganda
19. High Falls
20. Egbert
21. Penn State (Pa)
0
100
Km
Ministry of the Environment
Ontario

PART III

CENTRAL REGION

DAILY PRECIPITATION CHEMISTRY LISTINGS

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 4,88	JAN 3,88	755	755	400	700	2	1.2	2	76212	2	1	198		N
JAN 5,88	JAN 4,88	755	750	1000	750	2	9.1	2	76213	2	1	68		JHM
JAN 6,88	JAN 5,88	750	750	750	1400	2	2.3	2	76214	2	1	10		N
JAN 9,88	JAN 8,88	800	950	2300	600	2	1.1	2	76215	2	1	39		N
JAN 12,88	JAN 11,88	800	755	1100	1500	2	1.3	2	76216	2	1	126		NH
JAN 15,88	JAN 14,88	800	755	400	700	2	1.3	2	76217	2	1	92		
JAN 18,88	JAN 17,88	800	755	900	700	1	12.1	2	76218	2	1	24		N
JAN 19,88	JAN 18,88	755	755	1000	1500	1	0.2	2	76219	2	1	639		N
JAN 20,88	JAN 19,88	755	750	100	700	3	5.0	2	76220	2	1	93		
JAN 21,88	JAN 20,88	750	755	200	600	2	0.3	2	76221	2	1	369		N
JAN 24,88	JAN 23,88	800	1430	930	1400	2	5.1	2	76222	2	1	76		
JAN 25,88	JAN 24,88	1430	755	1700	700	2	0.2	2	76223	2	1	93		
JAN 29,88	JAN 28,88	755	755	900	1400	2	0.1	2	76224	2	1	296		N
JAN 31,88	JAN 30,88	800	1500	100	1400	1	5.1	2	76225	2	1	141		N
FEB 1,88	JAN 31,88	1500	755	1700	600	1	1.3	2	76226	2	1	166		N
FEB 2,88	FEB 1,88	755	750	1630	500	2	10.3	2	76227	2	1	88		H
FEB 4,88	FEB 3,88	755	755	2000	230	2	2.0	2	76228	2	1	98		H
FEB 8,88	FEB 7,88	755	755	900	2300	2	3.0	2	76229	2	1	32		NH
FEB 9,88	FEB 8,88	755	750	400	600	2	0.3	2	76230	2	1	280		N
FEB 10,88	FEB 9,88	750	755	2300	600	2	1.3	2	76231	2	1	117		
FEB 12,88	FEB 11,88	755	755	1800	730	2	5.3	2	76232	2	1	56		T
FEB 13,88	FEB 12,88	755	950	1000	600	2	3.3	2	76233	2	1	54		
FEB 15,88	FEB 14,88	755	755	200	730	3	5.2	2	76234	2	1	114		
FEB 16,88	FEB 15,88	755	755	2200	600	2	1.0	2	76235	2	1	115		
FEB 20,88	FEB 19,88	800	1030	1600	800	2	14.1	2	76236	2	1	48		N
FEB 21,88	FEB 20,88	1030	900	1600	2300	2	1.1	2	76237	2	1	338		N
FEB 23,88	FEB 22,88	800	800	1500	600	3	1.0	2	76238	2	1	193		NJHM
FEB 29,88	FEB 28,88	800	755	2100	700	2	6.4	2	76239	2	1	74		
MAR 2,88	MAR 1,88	755	755	400	700	2	1.0	2	76240	2	1	37		N
MAR 9,88	MAR 8,88	755	755	600	750	1	0.3	2	76241	2	1	468		N
MAR 13,88	MAR 12,88	755	1030	1500	2300	3	3.3	2	76242	2	1	143		N
MAR 14,88	MAR 13,88	1030	755	1300	600	2	0.3	2	76243	2	1	223		N
MAR 20,88	MAR 19,88	755	1030	900	2300	2	2.2	2	76244	2	1	162		N
MAR 26,88	MAR 25,88	800	1700	1030	1500	1	13.4	2	76246	2	1	111		
MAR 28,88	MAR 27,88	755	755	800	2000	2	3.1	2	76247	2	1	100		C
APR 3,88	APR 2,88	800	1300	200	1230	1	2.3	2	76248	2	1	150		N
APR 4,88	APR 3,88	1300	1400	1330	1300	1	9.3	2	76249	2	1	113		
APR 8,88	APR 7,88	755	755	####	####	1	2.3	2	76250	2	1	203		N
APR 14,88	APR 13,88	755	755	500	755	1	5.2	1	76251	2	1	110		
APR 15,88	APR 14,88	755	755	755	1100	1	4.1	1	76252	2	1	118		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 4,88	JAN 3,88	153.0	32.5	4.33	4.37	******	0.0803	D 2.45	1.19
JAN 5,88	JAN 4,88	401.0	LG 3.5	4.55	UG 6.98	******	0.0147	0.40	0.17
JAN 6,88	JAN 5,88	16.0	LG 1.0	******	4.32	******	0.0761	LG 0.15	<W 0.02
JAN 9,88	JAN 8,88	28.0	D 8.0	******	B 6.08	******	D 0.0209	0.50	0.35
JAN 12,88	JAN 11,88	105.0	14.0	UG 5.95	UG 6.44	******	0.0191	0.75	0.93
JAN 15,88	JAN 14,88	77.0	41.5	******	4.17	******	0.1060	3.40	1.26
JAN 18,88	JAN 17,88	192.0	49.5	4.00	4.01	******	0.1370	2.15	1.15
JAN 19,88	JAN 18,88	82.0	59.0	******	3.95	******	0.1530	2.75	1.42
JAN 20,88	JAN 19,88	301.0	15.0	4.54	D 4.60	******	0.0461	1.10	0.24
JAN 21,88	JAN 20,88	71.0	49.5	******	4.09	******	0.1210	3.50	1.34
JAN 24,88	JAN 23,88	251.0	37.0	4.16	4.15	******	0.0984	1.70	1.09
JAN 25,88	JAN 24,88	12.0	!IS ******	******	D 4.99	******	0.0342	!IS ******	!IS ******
JAN 29,88	JAN 28,88	19.0	!IS ******	******	UG 7.24	******	0.0134	!IS ******	!IS ******
JAN 31,88	JAN 30,88	464.0	43.5	4.12	4.19	******	0.0989	5.25	0.79
FEB 1,88	JAN 31,88	139.0	17.5	4.42	4.49	******	0.0564	1.85	0.29
FEB 2,88	FEB 1,88	582.0	6.0	4.81	4.98	******	0.0332	0.65	0.12
FEB 4,88	FEB 3,88	126.0	7.5	******	UG 5.58	******	0.0223	0.25	0.30
FEB 8,88	FEB 7,88	62.0	16.0	******	5.21	******	0.0316	0.65	0.82
FEB 9,88	FEB 8,88	54.0	31.0	******	4.21	******	0.0869	<W 0.05	1.02
FEB 10,88	FEB 9,88	98.0	28.0	******	4.25	******	0.0857	LG 0.20	1.06
FEB 12,88	FEB 11,88	191.0	32.0	******	4.27	******	D 0.0330	0.90	1.23
FEB 13,88	FEB 12,88	115.0	41.0	4.06	4.19	******	0.1270	D 3.35	1.24
FEB 15,88	FEB 14,88	381.0	48.5	4.00	3.99	******	0.1440	3.40	0.92
FEB 16,88	FEB 15,88	74.0	D 39.5	******	4.28	******	0.0891	3.40	1.42
FEB 20,88	FEB 19,88	442.0	24.0	4.30	4.32	******	0.0784	1.25	0.66
FEB 21,88	FEB 20,88	239.0	24.0	4.34	4.38	******	0.0738	1.80	0.65
FEB 23,88	FEB 22,88	124.0	26.5	UG 6.00	UG 7.22	******	0.0210	3.55	1.40
FEB 29,88	FEB 28,88	304.0	28.0	4.33	4.33	******	0.0823	1.15	1.14
MAR 2,88	MAR 1,88	24.0	17.5	******	4.73	******	0.0415	0.80	0.84
MAR 9,88	MAR 8,88	90.0	70.5	D 3.96	3.88	******	0.1690	6.30	1.41
MAR 13,88	MAR 12,88	304.0	44.5	4.22	4.17	******	0.1040	4.50	1.10
MAR 14,88	MAR 13,88	43.0	42.0	******	4.16	******	0.0989	D 3.05	1.05
MAR 20,88	MAR 19,88	229.0	15.5	UG 5.04	5.06	******	D 0.0327	1.35	0.67
MAR 26,88	MAR 25,88	957.0	30.0	4.31	4.39	******	0.0727	3.05	0.63
MAR 28,88	MAR 27,88	200.0	D 20.5	4.58	4.86	******	0.0421	2.05	0.46
APR 3,88	APR 2,88	222.0	49.0	4.03	4.06	******	0.1270	4.20	0.68
APR 4,88	APR 3,88	676.0	18.0	4.40	4.50	******	0.0598	1.95	0.32
APR 8,88	APR 7,88	300.0	86.0	3.90	3.77	******	0.2110	6.80	1.64
APR 14,88	APR 13,88	367.0	87.0	3.77	3.77	******	0.2090	6.45	2.62
APR 15,88	APR 14,88	312.0	31.5	4.28	4.37	******	0.0660	3.55	0.65

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06 PAGE : 3

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 4,88	JAN 3,88	0.94	0.37	0.110	0.025	0.115	D 0.455	0.0427
JAN 5,88	JAN 4,88	0.60	0.14	0.070	<T 0.010	0.065	<T 0.005	UG 0.0001
JAN 6,88	JAN 5,88	!IS ******	0.26	!IS ******	!IS ******	!IS ******	<W 0.005	0.0479
JAN 9,88	JAN 8,88	!IS ******	0.45	!IS ******	!IS ******	!IS ******	0.095	B 0.0008
JAN 12,88	JAN 11,88	1.38	0.56	0.220	0.035	0.200	0.035	UG 0.0004
JAN 15,88	JAN 14,88	0.72	0.34	0.080	0.060	0.080	0.845	0.0676
JAN 18,88	JAN 17,88	D 0.14	D 0.31	<T 0.020	<T 0.015	0.100	0.205	0.0977
JAN 19,88	JAN 18,88	D 0.16	0.17	<T 0.010	<T 0.020	0.045	0.400	0.1122
JAN 20,88	JAN 19,88	<T 0.10	0.05	<T 0.005	<T 0.010	0.025	0.085	D 0.0251
JAN 21,88	JAN 20,88	0.35	0.17	0.040	0.060	0.070	0.730	0.0813
JAN 24,88	JAN 23,88	0.24	0.36	0.040	<T 0.010	0.075	0.260	0.0708
JAN 25,88	JAN 24,88	<T 0.06	!IS ******	<T 0.010	<T 0.015	0.090	0.190	D 0.0102
JAN 29,88	JAN 28,88	0.89	!IS ******	0.035	<T 0.010	0.105	0.040	UG 0.0001
JAN 31,88	JAN 30,88	0.72	1.06	0.125	0.075	UG 0.705	D 0.680	0.0646
FEB 1,88	JAN 31,88	0.16	0.13	<T 0.020	0.030	0.105	D 0.220	0.0324
FEB 2,88	FEB 1,88	<T 0.02	<W 0.01	<W 0.005	<T 0.010	<T 0.015	0.050	0.0105
FEB 4,88	FEB 3,88	<T 0.04	0.96	<T 0.005	B 0.805	0.490	0.020	UG 0.0026
FEB 8,88	FEB 7,88	D 0.71	D 1.02	D 0.065	B 0.600	D 0.550	0.080	0.0062
FEB 9,88	FEB 8,88	!IS ******	0.84	!IS ******	!IS ******	!IS ******	0.030	0.0617
FEB 10,88	FEB 9,88	0.36	0.43	0.030	0.090	0.175	<T 0.020	0.0562
FEB 12,88	FEB 11,88	0.58	D 0.72	0.070	<T 0.015	0.520	0.070	0.0537
FEB 13,88	FEB 12,88	0.46	B 1.27	0.040	0.085	U 2.260	0.420	0.0646
FEB 15,88	FEB 14,88	0.22	0.33	<T 0.020	0.030	0.150	0.360	0.1023
FEB 16,88	FEB 15,88	1.24	D 0.52	0.110	0.065	0.290	0.680	0.0525
FEB 20,88	FEB 19,88	0.22	0.16	0.025	<W 0.005	0.075	0.170	0.0479
FEB 21,88	FEB 20,88	<T 0.06	0.0[illegible]	<T 0.010	<W 0.005	0.040	0.500	0.0417
FEB 23,88	FEB 22,88	2.04	0.76	0.270	0.090	0.495	0.900	UG 0.0001
FEB 29,88	FEB 28,88	0.40	0.36	0.055	<T 0.025	0.150	0.400	0.0468
MAR 2,88	MAR 1,88	0.42	0.26	0.040	<T 0.015	0.100	0.510	0.0186
MAR 9,88	MAR 8,88	0.76	0.29	0.075	0.045	0.115	0.890	0.1318
MAR 13,88	MAR 12,88	0.72	0.22	0.060	0.040	0.090	0.900	0.0676
MAR 14,88	MAR 13,88	D 0.26	0.28	[illegible]	<T 0.010	0.115	0.780	0.0692
MAR 20,88	MAR 19,88	0.74	0.40	0.065	<T 0.015	0.180	0.390	0.0087
MAR 26,88	MAR 25,88	0.60	0.26	D 0.065	0.040	0.210	0.370	0.0407
MAR 28,88	MAR 27,88	0.34	0.07	0.045	0.050	0.050	D 0.500	0.0138
APR 3,88	APR 2,88	0.34	0.37	0.050	0.035	0.205	0.300	0.0871
APR 4,88	APR 3,88	0.12	<T 0.02	<T 0.005	<T 0.020	<T 0.020	0.390	0.0316
APR 8,88	APR 7,88	D 0.76	0.30	D 0.080	0.135	0.115	0.530	0.1698
APR 14,88	APR 13,88	1.12	0.53	0.	050	0.110	1.090	0.1698
APR 15,88	APR 14,88	0.44	0.11	0.075	065	0.030	0.650	0.0427

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06 PAGE : 4

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
APR 18,88	APR 17,88	755	755	2000	600	3	6.4	1	76253	2	1	104		JHCM
APR 19,88	APR 18,88	755	750	1700	700	3	0.1	1	76254	2	1	233		N
APR 21,88	APR 20,88	755	755	1700	400	3	4.2	1	76255	2	1	101		JH
APR 24,88	APR 23,88	755	930	9000	6000	1	8.3	1	76256	2	1	84		N
APR 25,88	APR 24,88	930	755	1000	2300	1	2.2	1	76257	2	1	140		N
APR 26,88	APR 25,88	755	750	600	750	1	8.2	1	76258	2	1	86		H
APR 27,88	APR 26,88	750	755	750	1100	1	2.0	1	76259	2	1	37		N
APR 28,88	APR 27,88	755	755	1700	100	1	6.2	1	76260	2	1	105		
APR 29,88	APR 28,88	755	755	600	745	1	2.1	1	76261	2	1	50		
APR 30,88	APR 29,88	755	945	900	2000	1	2.2	1	76262	2	1	126		NC
MAY 9,88	MAY 8,88	800	755	300	600	1	0.1	1	76263	2	1	140		N
MAY 10,88	MAY 9,88	755	750	****	****	1	8.1	1	76264	2	1	108	B	
MAY 11,88	MAY 10,88	750	750	900	1400	1	1.1	1	76265	2	1	100		
MAY 14,88	MAY 13,88	800	1100	900	1100	1	6.3	1	76266	2	1	108		J
MAY 16,88	MAY 15,88	800	755	2100	600	1	21.4	1	76267	2	1	99		
MAY 17,88	MAY 16,88	755	755	1600	600	1	6.3	1	76270	2	1	93		
MAY 18,88	MAY 17,88	755	755	930	1100	1	6.0	1	76271	2	1	106		
MAY 20,88	MAY 19,88	800	755	1700	700	1	3.3	1	76272	2	1	112		
MAY 21,88	MAY 20,88	755	1800	900	1600	1	13.3	1	76273	2	1	107		
MAY 25,88	MAY 24,88	800	755	300	700	1	3.3	1	76274	2	1	105		
JUN 2,88	JUN 1,88	800	755	1000	1500	1	0.4	1	76275	2	1	179		N
JUN 3,88	JUN 2,88	755	755	2000	2230	1	5.0	1	76276	2	1	19	C	NC
JUN 7,88	JUN 6,88	800	755	1700	1900	1	0.3	1	76277	2	1	124		N
JUN 8,88	JUN 7,88	755	755	2000	2100	1	0.1	1	76278	2	1	218		N
JUN 20,88	JUN 19,88	755	755	400	500	1	0.3	1	76279	2	1	499	C	
JUN 22,88	JUN 21,88	755	755	2330	730	1	8.4	1	76280	2	1	109		J
JUN 23,88	JUN 22,88	755	750	830	2000	1	7.2	1	76281	2	1	100		
JUN 26,88	JUN 24,88	1030	1030	2000	900	1	8.1	1	76282	2	1	110	C	Y2
JUN 29,88	JUN 28,88	755	755	1000	1300	1	7.2	1	76283	2	1	101		
JUL 11,88	JUL 10,88	800	800	200	750	1	20.1	1	76284	2	1	32		N
JUL 14,88	JUL 13,88	800	750	300	700	1	5.3	*	76287	2	1	133	C	N
JUL 16,88	JUL 15,88	800	840	400	600	1	2.1	1	76288	2	1	97		
JUL 17,88	JUL 16,88	1000	1000	200	500	1	2.0	1	76289	2	1	86		
JUL 25,88	JUL 24,88	755	755	1600	1800	1	8.1	1	76290	2	1	90	C	
JUL 26,88	JUL 25,88	755	750	2330	500	1	1.1	1	76291	2	1	102		
JUL 27,88	JUL 26,88	750	755	1500	1700	1	2.3	1	76292	2	1	115		
JUL 31,88	JUL 30,88	800	1035	1300	2000	1	2.3	1	76293	2	1	96		
AUG 2,88	AUG 1,88	735	735	800	930	1	1.2	1	76294	2	1	78		
AUG 5,88	AUG 4,88	755	755	1600	2100	1	22.8	1	76295	2	1	35	C	N
AUG 7,88	AUG 6,88	1000	1000	500	700	1	9.0	1	76296	2	1	97		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
APR 18,88	APR 17,88	430.0		12.0	UG	6.23	UG	7.24	******		0.0152		1.35		0.38
APR 19,88	APR 18,88	15.0		4.0		******	UG	6.92	******	LG	0.0119		0.60	LG	0.06
APR 21,88	APR 20,88	272.0		26.5	UG	6.36	UG	7.07	******		0.0168		3.90		0.95
APR 24,88	APR 23,88	450.0		58.0		4.04		3.98	******		0.1460		5.55		1.64
APR 25,88	APR 24,88	198.0		62.5		4.02		3.99	******		0.1440		5.55		1.63
APR 26,88	APR 25,88	456.0		31.5		4.71		5.10	******		0.0351		4.65		1.19
APR 27,88	APR 26,88	48.0		32.0		******		4.48	******		0.0622		3.30		1.12
APR 28,88	APR 27,88	420.0		44.0		4.07		4.12	******	D	0.1100		3.55		0.93
APR 29,88	APR 28,88	68.0		29.0		******		4.34	******		0.0703		1.90		0.51
APR 30,88	APR 29,88	179.0		8.5		4.89		5.02	******		0.0283		0.45	LG	0.09
MAY 9,88	MAY 8,88	9.0		72.5		******	UCR	3.92	******	UCR	0.1740		0.90		0.71
MAY 10,88	MAY 9,88	561.0		36.0		4.15		4.24	******		0.0888		4.15		0.51
MAY 11,88	MAY 10,88	71.0		24.5		******	UG	6.25	******		0.0222		4.10		0.87
MAY 14,88	MAY 13,88	439.0		17.0		4.91	UG	5.99	******		0.0209		3.20		0.53
MAY 16,88	MAY 15,88	1370.0		42.0		4.06		4.11	******		0.1070		4.30		0.64
MAY 17,88	MAY 16,88	376.0		14.0		4.50		4.75	******		0.0408		1.30		0.32
MAY 18,88	MAY 17,88	409.0		10.5		4.58		4.78	******		0.0362		1.05		0.15
MAY 20,88	MAY 19,88	237.0	D	3.5	B	5.12		5.39	******		0.0205	D	0.35		0.15
MAY 21,88	MAY 20,88	918.0	D	45.5	D	4.03	D	4.03	******	D	0.1280	D	3.80		0.60
MAY 25,88	MAY 24,88	224.0		11.5		4.59		4.70	******		0.0407		1.50		0.10
JUN 2,88	JUN 1,88	46.0		11.5		******		4.76	******		0.0415		0.60		0.37
JUN 3,88	JUN 2,88	61.0		42.0		******	UG	7.59	******	LG	0.0136		3.90		0.95
JUN 7,88	JUN 6,88	24.0		5.5		******		5.10	******		0.0296		0.95	LG	0.02
JUN 8,88	JUN 7,88	14.0		3.5		******		5.12	******		0.0289		0.45	<T	0.02
JUN 20,88	JUN 19,88	96.0		65.0		******	UG	6.40	******		0.0235		10.50	!IS	******
JUN 22,88	JUN 21,88	589.0		16.0		4.35		4.90	******		0.0372		2.30		0.53
JUN 23,88	JUN 22,88	464.0		19.0		4.72		4.72	******		0.0521		2.25		0.30
JUN 26,88	JUN 24,88	573.0		54.5		4.30		4.24	******		0.1050		6.90		1.37
JUN 29,88	JUN 28,88	467.0		7.0		4.50		4.92	******		0.0346		0.60	LG	0.06
JUL 11,88	JUL 10,88	422.0		37.0		4.13		4.20	******		0.0825		5.05		0.47
JUL 14,88	JUL 13,88	453.0	D	21.5	D	4.38	D	4.57	******	D	0.0492		[illegible]		0.42
JUL 16,88	JUL 15,88	131.0		10.0		4.67		5.09	******		0.0251		0.85		0.35
JUL 17,88	JUL 16,88	111.0		25.5		4.35		4.51	******		0.0594		1.90		0.77
JUL 25,88	JUL 24,88	469.0		9.0		4.68		5.02	******		0.0275		0.75		0.22
JUL 26,88	JUL 25,88	72.0		36.5		******		4.28	******		0.0808		3.15		0.82
JUL 27,88	JUL 26,88	170.0		44.0		4.21		4.14	******		0.1030		3.30		0.92
JUL 31,88	JUL 30,88	143.0		25.5		4.30		4.31	******		0.0653		2.60		0.54
AUG 2,88	AUG 1,88	60.0		9.5		******	UG	6.39	******		0.0191		1.05		0.37
AUG 5,88	AUG 4,88	520.0	>	100.0		3.74		3.85	******		0.2240		13.50		1.04
AUG 7,88	AUG 6,88	562.0		11.5		4.54		4.66	******		0.0412		1.25		0.22

ONTARIO MINISTRY OF THE EN
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
APR 18,88	APR 17,88	0.64	0.06	0.125	<T 0.020	<T 0.020	0.360	UG 0.0001
APR 19,88	APR 18,88	!IS ******	0.08	!IS ******	!IS ******	!IS ******	!IS ******	UG 0.0001
APR 21,88	APR 20,88	1.04	0.19	0.190	0.065	0.060	1.390	UG 0.0001
APR 24,88	APR 23,88	0.94	0.33	0.130	0.065	0.055	1.080	0.1047
APR 25,88	APR 24,88	D 0.76	0.31	D 0.115	0.060	0.050	D 1.070	0.1023
APR 26,88	APR 25,88	0.78	0.14	0.175	0.040	0.050	1.530	0.0079
APR 27,88	APR 26,88	0.72	0.12	0.055	0.035	0.070	!IS ******	0.0331
APR 28,88	APR 27,88	0.40	0.17	0.035	0.025	<T 0.020	0.440	0.0759
APR 29,88	APR 28,88	0.16	0.09	<T 0.015	<T 0.010	<T 0.015	0.160	0.0457
APR 30,88	APR 29,88	<T 0.04	0.05	<W 0.005	<T 0.005	<T 0.010	0.040	0.0095
MAY 9,88	MAY 8,88	0.74	0.31	0.070	0.130	0.100	0.750	UCR 0.1202
MAY 10,88	MAY 9,88	0.34	0.16	0.040	0.030	0.025	0.520	0.0575
MAY 11,88	MAY 10,88	0.80	0.13	0.070	0.090	0.030	1.620	UG 0.0006
MAY 14,88	MAY 13,88	0.80	0.10	D 0.115	0.045	0.030	0.860	UG 0.0010
MAY 16,88	MAY 15,88	0.34	0.12	0.045	<T 0.020	<T 0.010	0.540	0.0776
MAY 17,88	MAY 16,88	0.14 <T	0.04 <T	0.020	<T 0.020	0.035	0.250	0.0178
MAY 18,88	MAY 17,88	<T 0.02	<T 0.03	<W 0.005	<T 0.015	0.035	0.100	0.0166
MAY 20,88	MAY 19,88	<T 0.06	<T 0.02	<T 0.010	0.040	<T 0.010	0.092	0.0041
MAY 21,88	MAY 20,88	D 0.12	D 0.06	<T 0.010	<T 0.015	<T 0.005	D 0.242	D 0.0933
MAY 25,88	MAY 24,88	0.14 <T	0.02	<T 0.015	0.060	<T 0.005	0.064	0.0200
JUN 2,88	JUN 1,88	0.46	0.33	0.050	0.115	0.040	LG 0.014	0.0174
JUN 3,88	JUN 2,88	5.50	0.27	0.700	UG 0.335	0.155	0.174	UG 0.0000
JUN 7,88	JUN 6,88	!IS ******	0.05	!IS ******	!IS ******	!IS ******	LG 0.014	0.0079
JUN 8,88	JUN 7,88	!IS ****** <T	0.04	!IS ******	!IS ******	!IS ******	LG 0.026	0.0076
JUN 20,88	JUN 19,88	!IS ******	0.72	!IS ******	!IS ******	!IS ******	1.350	UG 0.0004
JUN 22,88	JUN 21,88	0.48	0.10	0.080	0.030	0.035	0.622	0.0126
JUN 23,88	JUN 22,88	0.28	0.08	0.045	0.030	<T 0.020	0.346	0.0191
JUN 26,88	JUN 24,88	1.44	0.33	0.145	0.140	0.070	1.320	0.0575
JUN 29,88	JUN 28,88	0.12 <T	0.04 <T	0.010 <T	0.015 <T	0.010 <T	0.016	0.0120
JUL 11,88	JUL 10,88	0.24	0.07 <T	0.015	0.030 <T	0.020	0.912	0.0631
JUL 14,88	JUL 13,88	0.32	0.08	0.060	D 0.060	0.030	0.384	D 0.0769
JUL 16,88	JUL 15,88	0.22	0.05	0.030	0.030	0.035	0.220	0.0081
JUL 17,88	JUL 16,88	0.36	0.17	0.045	0.060	0.090	0.420	0.0309
JUL 25,88	JUL 24,88	D 0.22 <T	0.04 <T	0.015	0.030 <T	0.010	0.116	0.0095
JUL 26,88	JUL 25,88	0.50	0.14	0.040	0.065	0.040	0.426	0.0525
JUL 27,88	JUL 26,88	0.26	0.11 <T	0.015	0.030 <T	0.015	0.486	0.0724
JUL 31,88	JUL 30,88	0.40	0.07	0.055	<T 0.010	<T 0.020	0.278	0.0490
AUG 2,88	AUG 1,88	0.26	0.06	0.045	0.055	0.030	0.554	UG 0.0004
AUG 5,88	AUG 4,88	1.10	0.38	0.215	0.075	0.050	1.540	0.1413
AUG 7,88	AUG 6,88	<T 0.08	<T 0.02	<T 0.010	<T 0.005	<T 0.005	0.164	0.0219

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06 PAGE : 7

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
AUG 10,88	AUG 9,88	755	755	815	2100	1	44.3	1	76297	2	1	105		
AUG 15,88	AUG 14,88	755	755	900	600	1	1.0	1	76298	2	1	82		
AUG 16,88	AUG 15,88	755	755	830	1400	1	0.4	1	76299	2	1	214		N
AUG 17,88	AUG 16,88	755	750	700	745	1	3.1	1	76300	2	1	98		HN
AUG 18,88	AUG 17,88	755	755	900	1400	1	12.4	1	76301	2	1	54		
AUG 24,88	AUG 23,88	755	755	1800	730	1	10.1	1	76302	2	1	69		
AUG 25,88	AUG 24,88	755	750	1600	500	1	12.0	1	76303	2	1	105		
AUG 26,88	AUG 25,88	750	755	1300	500	1	9.1	1	76304	2	1	104		HN
AUG 28,88	AUG 27,88	800	1030	100	600	1	1.1	1	76305	2	1	70		C
AUG 31,88	AUG 30,88	755	755	1400	500	1	1.0	1	76306	2	1	59		N
SEP 4,88	SEP 3,88	900	900	1400	800	1	32.3	1	76307	2	1	80		NHCM
SEP 5,88	SEP 4,88	900	1000	930	400	1	20.1	1	76308	2	1	130		N
SEP 7,88	SEP 6,88	750	750	2100	2300	1	1.3	1	76309	2	1	93		
SEP 13,88	SEP 12,88	755	755	2000	600	1	3.4	1	76310	2	1	95		
SEP 15,88	SEP 14,88	755	755	1800	1900	1	2.0	1	76311	2	1	85		
SEP 18,88	SEP 17,88	1000	1000	900	2000	1	7.0	1	76312	2	1	92		
SEP 20,88	SEP 19,88	755	755	200	700	1	2.4	1	76313	2	1	119		
SEP 21,88	SEP 20,88	755	755	1400	700	1	1.2	1	76314	2	1	102		
SEP 22,88	SEP 21,88	755	750	600	730	1	3.2	1	76315	2	1	12	C	N
SEP 23,88	SEP 22,88	750	755	2100	700	1	12.4	1	76316	2	1	55		C
SEP 27,88	SEP 26,88	755	755	1900	2300	1	1.1	1	76317	2	1	45	C	
SEP 28,88	SEP 27,88	755	750	1400	1700	1	16.2	1	76318	2	1	98		N
OCT 2,88	OCT 1,88	900	900	300	900	1	15.2	1	76319	2	1	98		N
OCT 3,88	OCT 2,88	900	755	####	####	1	0.4	1	76320	2	1	77		N
OCT 5,88	OCT 4,88	755	755	1815	730	1	22.1	1	76321	2	1	110		N
OCT 7,88	OCT 6,88	755	755	600	700	1	0.4	1	76322	2	1	77		NC
OCT 8,88	OCT 7,88	1000	1000	1400	2000	1	0.4	1	76323	2	1	15		N
OCT 11,88	OCT 10,88	755	755	1100	700	1	8.2	1	76324	2	1	59		C
OCT 16,88	OCT 15,88	755	755	300	####	1	6.0	1	76325	2	1	118		
OCT 17,88	OCT 16,88	755	755	100	####	1	6.0	1	76326	2	1	118		
OCT 22,88	OCT 21,88	1230	1230	1500	2400	1	9.2	1	76327	2	1	98		
OCT 24,88	OCT 23,88	755	755	2000	400	1	5.2	1	76328	2	1	88		
OCT 25,88	OCT 24,88	755	750	1400	700	1	4.4	1	76329	2	1	97		
OCT 26,88	OCT 25,88	755	755	1000	600	1	5.1	1	76330	2	1	98		JHN
OCT 27,88	OCT 26,88	755	755	1300	2100	1	0.4	2	76331	2	1	66		N
OCT 28,88	OCT 27,88	755	755	2000	730	1	5.0	2	76332	2	1	107		
OCT 30,88	OCT 29,88	830	930	830	500	2	4.0	2	76333	2	1	91		CN
NOV 1,88	OCT 31,88	755	755	600	700	1	0.3	2	76334	2	1	202		N
NOV 5,88	NOV 4,88	700	700	####	####	1	14.0	2	84956	2	1	19		N
NOV 9,88	NOV 8,88	700	755	945	600	1	2.4	1	84954	2	1	289		N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
AUG 10,88	AUG 9,88	2985.0		52.0		3.93		4.01	******		0.1290		5.80		0.63
AUG 15,88	AUG 14,88	53.0		27.0		******		4.49	******		0.0636		3.75		0.94
AUG 16,88	AUG 15,88	55.0	LG	3.0		******	UG	5.68	******		0.0215		0.60		0.10
AUG 17,88	AUG 16,88	195.0		6.5		4.58		4.94	******		0.0321		0.75		0.30
AUG 18,88	AUG 17,88	435.0		21.0		4.29		4.41	******		0.0669		2.65		0.51
AUG 24,88	AUG 23,88	453.0		50.0		3.92		3.93	******		0.1490		4.90		0.83
AUG 25,88	AUG 24,88	811.0		16.5		4.56		4.72	******		0.0427		2.00		0.37
AUG 26,88	AUG 25,88	607.0		5.0	UG	6.28	UG	6.81	******	D	0.0162		0.95		0.17
AUG 28,88	AUG 27,88	50.0	>	100.0		******	LG	3.48	******	UG	0.3400	B	21.30		2.15
AUG 31,88	AUG 30,88	38.0		4.5		******	B	6.73	******	LG	0.0136		0.40		0.21
SEP 4,88	SEP 3,88	1662.0	LG	2.0	D	4.99	D	5.06	******		0.0240	<T	0.20	<T	0.02
SEP 5,88	SEP 4,88	1685.0		31.0		4.07		4.05	******		0.0984		3.35		0.29
SEP 7,88	SEP 6,88	78.0		7.0		******	B	6.43	******	D	0.0161		1.35		0.14
SEP 13,88	SEP 12,88	208.0		21.5		4.27		4.31	******		0.0809		2.55		0.40
SEP 15,88	SEP 14,88	110.0		12.0		4.53		4.55	******		0.0534		1.80	<T	0.05
SEP 18,88	SEP 17,88	416.0		33.0	D	4.13	D	4.09	******		0.1180		3.35		0.50
SEP 20,88	SEP 19,88	184.0		51.0		3.94		3.98	******		0.1490		5.40		0.52
SEP 21,88	SEP 20,88	79.0		30.5		******	UG	6.94	******		0.0196		6.15		1.21
SEP 22,88	SEP 21,88	25.0		10.5		******	B	7.07	******		0.0178		3.15		0.14
SEP 23,88	SEP 22,88	438.0		19.0		4.09		4.19	******		0.0934		2.80		0.63
SEP 27,88	SEP 26,88	32.0		14.0		******	UG	7.60	******		0.0166		1.50		0.22
SEP 28,88	SEP 27,88	1023.0		18.0		4.45		4.76	******		0.0406		4.10		0.49
OCT 2,88	OCT 1,88	960.0		11.0		4.58		4.65	******		0.0436		1.25		0.20
OCT 3,88	OCT 2,88	20.0		13.5		******		4.52	******		0.0519		1.85	LG	0.06
OCT 5,88	OCT 4,88	1570.0		9.0		4.66		4.71	******		0.0392		0.75		0.26
OCT 7,88	OCT 6,88	20.0		4.5		******		4.91	******		0.0342		0.75		0.15
OCT 8,88	OCT 7,88	4.0		******		******		******	******		******		******		******
OCT 11,88	OCT 10,88	312.0	D	10.0		4.73	D	4.86	******	D	0.0388		2.30		0.40
OCT 16,88	OCT 15,88	456.0		22.0		4.34		4.29	******		0.0734		2.05		0.41
OCT 17,88	OCT 16,88	456.0		22.0		4.33		4.31	******		0.0739		1.95		0.39
OCT 22,88	OCT 21,88	581.0		25.0	D	4.32	D	4.22	******	D	0.0816		1.30		0.76
OCT 24,88	OCT 23,88	294.0		24.5		4.30		4.19	******		0.0843		1.50		0.68
OCT 25,88	OCT 24,88	276.0		13.0		4.76		4.74	******		0.0423		1.90		0.45
OCT 26,88	OCT 25,88	322.0		8.5	UG	6.83	UG	7.67	******		0.0141		0.85		0.09
OCT 27,88	OCT 26,88	17.0		7.0		******	B	7.38	******	LG	0.0140		0.85	<M	0.10
OCT 28,88	OCT 27,88	345.0		30.0		4.24		4.13	******		0.1150		2.95		0.86
OCT 30,88	OCT 29,88	234.0		27.0	UG	7.51	B	7.79	******	B	0.0426		1.75		0.15
NOV 1,88	OCT 31,88	39.0		59.5		******		3.95	******		0.1530		2.65	!IS	******
NOV 5,88	NOV 4,88	175.0		54.0		******		3.97	******		0.1450		5.80		1.31
NOV 9,88	NOV 8,88	445.0	D	19.0		******	D	4.36	******		0.0861	D	1.65		0.47

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06 PAGE : 9

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L	
AUG 10,88	AUG 9,88		0.36		0.12		0.045	<T	0.020	<T	0.020		0.530		0.0977
AUG 15,88	AUG 14,88		1.04		0.20		0.100		0.055		0.060		0.546		0.0324
AUG 16,88	AUG 15,88		0.18	<T	0.03	<T	0.015		0.035	<T	0.025		0.126	UG	0.0021
AUG 17,88	AUG 16,88	<T	0.08	<T	0.04	<T	0.015	<T	0.020	<T	0.020		0.166		0.0115
AUG 18,88	AUG 17,88		0.26		0.08		0.055	<T	0.025	<T	0.020		0.380		0.0389
AUG 24,88	AUG 23,88		0.20		0.08	<T	0.020		0.025	<T	0.020		0.360		0.1175
AUG 25,88	AUG 24,88		0.18		0.07	<T	0.020	<T	0.015		0.075		0.390		0.0191
AUG 26,88	AUG 25,88		0.24		0.05		0.030		0.035	D	0.040		0.320	UG	0.0002
AUG 28,88	AUG 27,88		1.92		0.69		0.220		0.235		0.150		1.640	LG	0.3311
AUG 31,88	AUG 30,88	D	0.56		0.10	D	0.040		0.035	D	0.105		0.046	B	0.0002
SEP 4,88	SEP 3,88	<T	0.04	<W	0.01	<W	0.005	<T	0.005	<T	0.010	<T	0.016	D	0.0087
SEP 5,88	SEP 4,88	<T	0.04		0.07	<T	0.005	<T	0.015	<T	0.015	D	0.210		0.0891
SEP 7,88	SEP 6,88		0.54		0.13		0.065		0.055		0.095		0.206	B	0.0004
SEP 13,88	SEP 12,88		0.34		0.09		0.040		0.035		0.040		0.300		0.0490
SEP 15,88	SEP 14,88		0.16	<W	0.01	<T	0.010	<T	0.025	<T	0.025		0.106		0.0282
SEP 18,88	SEP 17,88		0.20		0.09	<T	0.015	<T	0.020	<T	0.015		0.316	D	0.0813
SEP 20,88	SEP 19,88		0.12		0.31	<T	0.020		0.040		0.120		0.200		0.1047
SEP 21,88	SEP 20,88		2.32		0.36		0.265		0.220		0.070		1.570	UG	0.0001
SEP 22,88	SEP 21,88	!IS	******		0.12	!IS	******	!IS	******	!IS	******		0.266	B	0.0001
SEP 23,88	SEP 22,88		0.22		0.13	<T	0.025		0.045		0.025		0.370		0.0646
SEP 27,88	SEP 26,88	!IS	******		0.18	!IS	******	!IS	******	!IS	******		0.220	UG	0.0000
SEP 28,88	SEP 27,88		0.84		0.09		0.095		0.030		0.025		0.720		0.0174
OCT 2,88	OCT 1,88		0.10	<T	0.03	<T	0.015	<T	0.005	<T	0.020		0.146		0.0224
OCT 3,88	OCT 2,88	!IS	******		0.11	!IS	******	!IS	******	!IS	******	<T	0.016		0.0302
OCT 5,88	OCT 4,88		0.10	<W	0.01	<W	0.005	<W	0.005	<T	0.005		0.140		0.0195
OCT 7,88	OCT 6,88		0.16		0.12	<T	0.010		0.045		0.105	<T	0.020		0.0123
OCT 8,88	OCT 7,88		******		******		******		******		******		******		******
OCT 11,88	OCT 10,88		0.24		0.07		0.040		0.040	<T	0.015		0.646	D	0.0138
OCT 16,88	OCT 15,88		0.16	<T	0.03	<T	0.020	<T	0.025	<T	0.025		0.206		0.0513
OCT 17,88	OCT 16,88		0.18	<T	0.04	<T	0.020	<T	0.025		0.025		0.206		0.0490
OCT 22,88	OCT 21,88		0.18		0.06		0.025		0.035	<T	0.015		0.180	D	0.0603
OCT 24,88	OCT 23,88	<T	0.06	<T	0.03	<T	0.005	<T	0.020	<T	0.010		0.186		0.0646
OCT 25,88	OCT 24,88		0.48		0.06		0.045		0.030		0.105		0.290		0.0182
OCT 26,88	OCT 25,88		1.72	<W	0.01		0.035	<T	0.015	<T	0.010		0.116	UG	0.0000
OCT 27,88	OCT 26,88		1.34	<T	0.02		0.035	<T	0.025	<T	0.025	!IS	******	B	0.0000
OCT 28,88	OCT 27,88		0.64		0.10	D	0.055		0.035	<T	0.020		0.286		0.0741
OCT 30,88	OCT 29,88	B	3.10	<T	0.02	D	0.080	D	0.070		0.025		0.170	B	0.0000
NOV 1,88	OCT 31,88		2.08		0.61		0.245		0.085		0.120	!IS	******		0.1122
NOV 5,88	NOV 4,88	D	1.14		0.39	D	0.125		0.040		0.155		0.546		0.1072
NOV 9,88	NOV 8,88		0.14		0.11	<T	0.010	<T	0.010	<T	0.010	D	0.280	D	0.0437

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES		SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 10,88	NOV 9,88	755	755	600	745	1	72.0	2	40001	2	1		12	Q	N
NOV 15,88	NOV 13,88	1400	755	800	1500	1	0.4	2	40004	2	1		245	Q	NHZ
NOV 18,88	NOV 15,88	800	750	1800	600	2	2.4	2	40005	2	1		157	Q	NHZ
NOV 20,88	NOV 18,88	800	1500	2100	1430	1	3.1	2	40006	2	1		117	Q	HCNZ
NOV 29,88	NOV 28,88	755	755	1400	2000	3	2.4	2	40013	2	1		137		N
DEC 1,88	NOV 30,88	755	755	1000	600	2	4.4	2	40014	2	1		103		Z
DEC 5,88	DEC 4,88	800	755	1100	1700	2	4.0	2	40016	2	1		71		C
DEC 9,88	DEC 8,88	755	955	755	900	2	0.4	2	40017	2	1		526		NH
DEC 12,88	DEC 9,88	755	755	****	****	2	0.3	2	40018	2	1		83	E	NZ
DEC 14,88	DEC 13,88	755	925	1600	600	2	0.3	2	40019	2	1		31		N
DEC 15,88	DEC 14,88	925	805	1400	700	2	4.0	2	40020	2	1		87		
DEC 19,88	DEC 15,88	805	805	100	200	2	2.2	2	40021	2	1		104		Z
DEC 20,88	DEC 19,88	805	1125	1300	1000	1	2.4	2	40022	2	1		135		N
DEC 23,88	DEC 20,88	1125	845	200	845	3	8.1	2	40023	2	1		84		Z
DEC 25,88	DEC 23,88	845	1345	1600	1330	2	8.4	2	40024	2	1		115		Z
DEC 28,88	DEC 25,88	1345	904	****	****	2	41.0	2	40025	2	1	U	28	PE	Z
DEC 29,88	DEC 28,88	910	910	****	****	2	0.2	2	40055	2	1	U	343	EF	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM 806 PAGE : 11

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM	PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
NOV 10,88	NOV 9,88	566.0		19.0	******		4.46	******		0.0635		1.95		0.41
NOV 15,88	NOV 13,88	63.0		14.5	******	UG	5.76	******		0.0200		2.10		0.69
NOV 18,88	NOV 15,88	243.0		12.0	******	UG	5.76	******		0.0209		2.80		0.48
NOV 20,88	NOV 18,88	234.0		42.5	******		4.67	******		0.0386		2.60		1.14
NOV 29,88	NOV 28,88	211.0		24.0	******		4.49	******		0.0598	D	3.35		0.60
DEC 1,88	NOV 30,88	293.0		13.0	******	B	6.99	******	D	0.0149		1.95		0.67
DEC 5,88	DEC 4,88	184.0	LG	3.0	******	UG	6.11	******		0.0155		0.75		0.11
DEC 9,88	DEC 8,88	135.0		4.0	******	UG	6.47	******		0.0151	LG	0.15		0.38
DEC 12,88	DEC 9,88	16.0		5.5	******	!IR	******	******	!IR	******		0.60		0.22
DEC 14,88	DEC 13,88	6.0		6.0	******	D	4.87	******		0.0354	LG	0.20		0.25
DEC 15,88	DEC 14,88	224.0		49.0	******		4.15	******		0.1110	D	4.40		2.01
DEC 19,88	DEC 15,88	148.0		23.0	******		4.45	******		0.0589		0.65		1.25
DEC 20,88	DEC 19,88	208.0	D	30.5	******		4.20	******		0.0919		5.75		0.47
DEC 23,88	DEC 20,88	441.0		24.5	******		4.38	******		0.0677		2.95		0.58
DEC 25,88	DEC 23,88	620.0		10.0	******		4.68	******		0.0404		1.10	LG	0.03
DEC 28,88	DEC 25,88	743.0		******	******		******	******		******		******		******
DEC 29,88	DEC 28,88	44.0		******	******		******	******		******		******		******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06 PAGE : 12

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
NOV 10,88	NOV 9,88	0.12	0.21	<T 0.025	<T 0.015	0.100	0.290	0.0347
NOV 15,88	NOV 13,88	0.70	0.15	0.070	0.055	0.090	0.606	UG 0.0017
NOV 18,88	NOV 15,88	1.26	0.14	0.100	0.045	0.040	0.366	UG 0.0017
NOV 20,88	NOV 18,88	0.30	0.13	0.030	<T 0.020	0.035	0.180	0.0214
NOV 29,88	NOV 28,88	D 0.68	0.18	D 0.045	0.035	D 0.090	0.500	0.0324
DEC 1,88	NOV 30,88	D 1.80	0.24	D 0.065	<T 0.020	0.060	0.274	B 0.0001
DEC 5,88	DEC 4,88	0.42	0.15	0.045	<T 0.015	0.085	0.054	UG 0.0008
DEC 9,88	DEC 8,88	0.64	0.12	0.045	<T 0.010	0.075	<T 0.002	UG 0.0003
DEC 12,88	DEC 9,88	0.34	0.50	0.030	<T 0.025	0.310	<W 0.002	!IR ******
DEC 14,88	DEC 13,88	0.16	0.32	<T 0.010	<T 0.015	0.085	<W 0.002	D 0.0135
DEC 15,88	DEC 14,88	D 1.44	0.80	D 0.115	0.115	0.220	D 1.290	0.0708
DEC 19,88	DEC 15,88	1.12	1.15	0.105	<T 0.015	UG 0.605	0.022	0.0355
DEC 20,88	DEC 19,88	0.56	0.33	0.050	<T 0.010	0.135	0.136	0.0631
DEC 23,88	DEC 20,88	0.56	0.32	0.055	0.045	0.170	0.392	0.0417
DEC 25,88	DEC 23,88	<T 0.10	0.37	<T 0.010	<T 0.015	<T 0.020	0.178	0.0209
DEC 28,88	DEC 25,88	******	******	******	******	******	******	******
DEC 29,88	DEC 28,88	******	******	******	******	******	******	******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM 808 PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 1,88	DEC 31,87	815	815	1400	815	2	7.0	2	45907	2	1	77		
JAN 2,88	JAN 1,88	815	815	815	815	2	10.1	2	45909	2	1	50		
JAN 3,88	JAN 2,88	815	815	815	1300	2	0.8	2	45911	2	1	38		N
JAN 4,88	JAN 3,88	815	815	400	815	2	1.4	2	45913	2	1	72		
JAN 5,88	JAN 4,88	815	840	815	2400	2	10.5	2	45915	2	1	67		
JAN 9,88	JAN 8,88	800	830	300	1530	2	0.8	2	45917	2	1	89		
JAN 10,88	JAN 9,88	830	830	1400	1500	2	0.3	2	45919	2	1	93		
JAN 11,88	JAN 10,88	830	730	****	****	2	****	2	45921	2	1	****		X
JAN 12,88	JAN 11,88	730	730	1200	1600	2	0.4	2	45923	2	1	15		XN
JAN 13,88	JAN 12,88	730	830	2400	600	2	10.6	2	45925	2	1	91		
JAN 16,88	JAN 14,88	730	830	1800	2400	2	0.6	2	45927	2	1	7		XNY2
JAN 18,88	JAN 17,88	830	830	1800	830	3	16.3	2	45929	2	1	102		
JAN 19,88	JAN 18,88	830	730	1600	1900	2	2.2	2	45933	2	1	124		N
JAN 20,88	JAN 19,88	730	715	100	715	1	4.1	2	45935	2	1	138		N
JAN 21,88	JAN 20,88	715	815	2300	400	2	1.8	2	45937	2	1	73		
JAN 22,88	JAN 21,88	815	730	800	1000	2	****	2	45939	2	1	****		X
JAN 23,88	JAN 22,88	730	815	1900	815	2	0.4	2	45941	2	1	66		
JAN 24,88	JAN 23,88	815	845	815	1100	2	1.6	2	45943	2	1	58		
JAN 25,88	JAN 24,88	845	815	2300	200	2	7.6	2	45945	2	1	76		
JAN 28,88	JAN 27,88	800	815	2400	815	2	1.5	2	45947	2	1	75		
JAN 29,88	JAN 28,88	815	730	815	1100	2	0.4	2	45949	2	1	81		
JAN 31,88	JAN 30,88	800	815	1200	815	1	5.5	2	45951	2	1	99		
FEB 1,88	JAN 31,88	815	800	815	2400	1	13.8	2	45953	2	1	101		
FEB 2,88	FEB 1,88	800	745	2000	200	2	4.4	2	45957	2	1	22		NHM
FEB 4,88	FEB 3,88	800	815	2400	300	2	1.0	2	45959	2	1	101		
FEB 6,88	FEB 5,88	800	815	430	815	2	2.3	2	45961	2	1	52		
FEB 7,88	FEB 6,88	815	805	815	1100	2	1.5	2	45963	2	1	27		N
FEB 8,88	FEB 7,88	805	825	1200	300	2	2.8	2	45965	2	1	47		N
FEB 9,88	FEB 8,88	825	830	400	830	2	0.8	2	45967	2	1	35		N
FEB 10,88	FEB 9,88	830	800	2400	500	2	0.7	2	45969	2	1	35		N
FEB 12,88	FEB 11,88	800	830	2000	830	2	14.8	2	45971	2	1	50		
FEB 13,88	FEB 12,88	830	800	830	700	2	10.5	2	45973	2	1	62		
FEB 15,88	FEB 14,88	800	830	2200	830	3	13.0	2	45975	2	1	89		
FEB 16,88	FEB 15,88	830	830	830	1500	3	6.5	2	45977	2	1	96		
FEB 17,88	FEB 16,88	830	800	2200	800	3	2.0	2	45979	2	1	87		
FEB 18,88	FEB 17,88	800	800	1500	1800	2	0.8	2	45981	2	1	62		
FEB 20,88	FEB 19,88	800	800	1830	630	2	13.0	2	45983	2	1	79		
FEB 21,88	FEB 20,88	800	830	1900	400	2	5.7	2	45985	2	1	80		
FEB 22,88	FEB 21,88	830	800	2300	800	2	1.3	2	45987	2	1	67		H
FEB 23,88	FEB 22,88	800	800	830	1800	3	13.8	2	45989	2	1	85		JHM

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM 808 PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM		PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L		SULPHATE MG/L	NITRATE AS N MG/L
JAN 1,88	DEC 31,87	346.0	21.0		4.44		4.52	******	0.0552		2.40	0.50
JAN 2,88	JAN 1,88	324.0	6.5		4.83		4.93	******	0.0283		0.55	0.18
JAN 3,88	JAN 2,88	20.0	4.0		******		5.30	******	0.0240	LG	0.20	0.17
JAN 4,88	JAN 3,88	65.0	35.5		******		4.21	******	0.0917		0.55	1.37
JAN 5,88	JAN 4,88	453.0	6.5		4.78		4.98	******	0.0304		0.25	0.27
JAN 9,88	JAN 8,88	46.0	40.5		******		4.08	******	0.1070		0.35	1.44
JAN 10,88	JAN 9,88	18.0	10.5		******		4.71	******	0.0389		0.30	0.36
JAN 11,88	JAN 10,88	1.0	******		******		******	******	******		******	******
JAN 12,88	JAN 11,88	4.0	******		******		******	******	******		******	******
JAN 13,88	JAN 12,88	619.0	33.5		4.24		4.24	******	0.0916		3.00	0.90
JAN 16,88	JAN 14,88	3.0	******		******		******	******	******		******	******
JAN 18,88	JAN 17,88	1071.0	17.5		4.44		4.41	******	0.0594		1.05	0.39
JAN 19,88	JAN 18,88	176.0	41.5		4.06		4.01	******	0.1200		2.20	0.95
JAN 20,88	JAN 19,88	363.0	21.5		4.45		4.45	******	0.0556		1.65	0.29
JAN 21,88	JAN 20,88	85.0	47.5		******		3.99	******	0.1240		3.35	0.92
JAN 22,88	JAN 21,88	4.0	******		******		******	******	******		******	******
JAN 23,88	JAN 22,88	17.0	35.0		******		4.37	******	0.0748		1.30	1.00
JAN 24,88	JAN 23,88	60.0	39.0		******		4.17	******	0.1070		1.25	1.20
JAN 25,88	JAN 24,88	375.0	37.0		4.14		4.16	******	0.1050		2.25	0.82
JAN 28,88	JAN 27,88	73.0	28.5		******		4.26	******	0.0834		0.30	1.11
JAN 29,88	JAN 28,88	21.0	7.0		******	UG	5.54	******	0.0262		0.35	0.26
JAN 31,88	JAN 30,88	350.0	68.5		3.95		4.04	******	0.1430		6.80	1.86
FEB 1,88	JAN 31,88	896.0	23.0		4.32		4.42	******	0.0684		2.35	0.32
FEB 2,88	FEB 1,88	64.0	7.0		******		5.15	******	0.0316		0.55	0.20
FEB 4,88	FEB 3,88	65.0	23.5		******		4.31	******	0.0753	LG	0.05	0.74
FEB 6,88	FEB 5,88	77.0	5.0		******	<=>	5.00	******	0.0265		0.30	0.20
FEB 7,88	FEB 6,88	26.0	8.0		******	UG	6.82	******	0.0160	!IS	******	!IS ******
FEB 8,88	FEB 7,88	85.0	26.5		******		4.25	******	0.0849		0.55	1.04
FEB 9,88	FEB 8,88	18.0	16.0		******		5.34	******	0.0256	!IS	******	!IS ******
FEB 10,88	FEB 9,88	16.0	9.5		******		4.85	******	0.0380	LG	0.15	0.42
FEB 12,88	FEB 11,88	481.0	25.0		4.32		4.26	******	0.0822	LG	0.20	0.82
FEB 13,88	FEB 12,88	424.0	33.0		4.21		4.15	******	0.1020		1.10	0.98
FEB 15,88	FEB 14,88	746.0	37.0		4.13		4.15	******	0.1050		2.20	0.82
FEB 16,88	FEB 15,88	404.0	23.0		4.33		4.35	******	0.0757		1.90	0.34
FEB 17,88	FEB 16,88	112.0	34.5		4.18		4.22	******	0.0923		1.75	0.98
FEB 18,88	FEB 17,88	32.0	60.5		******		4.08	******	0.1340		4.55	1.65
FEB 20,88	FEB 19,88	663.0	21.0		4.30		4.38	******	0.0713		0.60	0.68
FEB 21,88	FEB 20,88	294.0	49.0		4.06		4.08	******	0.1470		3.00	1.47
FEB 22,88	FEB 21,88	56.0	19.0		******		4.78	******	0.0452		1.30	0.86
FEB 23,88	FEB 22,88	758.0	22.5	UG	5.90	UG	7.06	******	0.0202		3.45	1.10

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08 PAGE : 3

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 1,88	DEC 31,87	0.22	0.17	0.030	<T 0.015	0.075	0.555	0.0302
JAN 2,88	JAN 1,88	<T 0.08	0.07	<T 0.005	<W 0.005	0.035	0.080	0.0117
JAN 3,88	JAN 2,88	!IS ******	0.33	!IS ******	!IS ******	!IS ******	<W 0.005	0.0050
JAN 4,88	JAN 3,88	0.52	0.48	0.080	<T 0.010	0.220	0.045	0.0617
JAN 5,88	JAN 4,88	0.12	0.11	<T 0.010	D 0.030	0.040	0.040	0.0105
JAN 9,88	JAN 8,88	0.20	0.22	<T 0.015	<T 0.010	0.100	0.055	0.0832
JAN 10,88	JAN 9,88	!IS ******	0.49	!IS ******	!IS ******	!IS ******	<T 0.005	0.0195
JAN 11,88	JAN 10,88	******	******	******	******	******	******	******
JAN 12,88	JAN 11,88	******	******	******	******	******	******	******
JAN 13,88	JAN 12,88	0.18	0.20	<T 0.020	0.050	0.075	0.900	0.0575
JAN 16,88	JAN 14,88	******	******	******	******	******	******	******
JAN 18,88	JAN 17,88	<T 0.02	0.11	<T 0.005	<T 0.015	0.045	0.115	0.0389
JAN 19,88	JAN 18,88	<T 0.06	0.17	<T 0.010	<T 0.015	0.075	0.215	0.0977
JAN 20,88	JAN 19,88	0.22	0.13	<T 0.010	<T 0.020	0.080	0.085	0.0355
JAN 21,88	JAN 20,88	0.30	0.44	<T 0.020	0.055	0.290	0.325	0.1023
JAN 22,88	JAN 21,88	******	******	******	******	******	******	******
JAN 23,88	JAN 22,88	!IS ******	UG 2.79	!IS ******	!IS ******	!IS ******	0.150	0.0427
JAN 24,88	JAN 23,88	0.23	0.60	0.040	D 0.050	0.275	0.160	0.0676
JAN 25,88	JAN 24,88	<T 0.04	0.44	<T 0.010	<T 0.010	0.155	0.360	0.0692
JAN 28,88	JAN 27,88	0.32	0.38	0.050	<T 0.005	0.230	<T 0.010	0.0550
JAN 29,88	JAN 28,88	!IS ******	0.33	!IS ******	!IS ******	!IS ******	<T 0.010	UG 0.0029
JAN 31,88	JAN 30,88	0.98	1.04	0.125	0.115	UG 0.635	1.560	0.0912
FEB 1,88	JAN 31,88	<T 0.08	0.29	0.035	<T 0.010	0.175	0.330	0.0380
FEB 2,88	FEB 1,88	<T 0.02	0.19	<T 0.010	0.075	0.120	0.110	0.0071
FEB 4,88	FEB 3,88	<T 0.06	0.38	<T 0.010	<T 0.005	0.170	<T 0.010	0.0490
FEB 6,88	FEB 5,88	<T 0.04	0.11	<T 0.010	<T 0.015	0.075	0.030	<=> 0.0100
FEB 7,88	FEB 6,88	<W 0.02	!IS ******	<W 0.005	<W 0.005	0.095	0.030	UG 0.0002
FEB 8,88	FEB 7,88	0.18	0.18	0.035	<T 0.010	0.070	0.120	0.0562
FEB 9,88	FEB 8,88	<T 0.06	!IS ******	<T 0.015	<T 0.010	0.250	0.040	0.0046
FEB 10,88	FEB 9,88	!IS ******	0.22	!IS ******	!IS ******	!IS ******	0.040	0.0141
FEB 12,88	FEB 11,88	<T 0.02	0.12	<T 0.010	<W 0.005	0.045	<T 0.020	0.0550
FEB 13,88	FEB 12,88	<W 0.02	0.21	0.035	<T 0.020	0.085	0.090	0.0708
FEB 15,88	FEB 14,88	<T 0.08	0.23	<T 0.015	0.045	0.110	0.280	0.0708
FEB 16,88	FEB 15,88	<W 0.02	<T 0.03	<W 0.005	<W 0.005	<T 0.005	0.220	0.0447
FEB 17,88	FEB 16,88	0.14	0.23	0.030	<T 0.020	0.110	0.420	0.0603
FEB 18,88	FEB 17,88	0.26	UG 1.48	0.050	0.160	UG 0.935	1.260	0.0832
FEB 20,88	FEB 19,88	<T 0.04	0.11	<W 0.005	<T 0.005	0.080	0.070	0.0417
FEB 21,88	FEB 20,88	<T 0.08	0.27	<T 0.010	0.030	0.075	0.930	0.0832
FEB 22,88	FEB 21,88	0.68	0.72	0.125	<T 0.010	0.445	0.230	0.0166
FEB 23,88	FEB 22,88	1.14	0.59	0.180	0.090	0.440	1.110	UG 0.0001

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #06

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
FEB 24,88	FEB 23,88	800	740	1700	2100	2	0.6	2	45991	2	1	122		N
FEB 25,88	FEB 24,88	740	800	1300	1900	2	4.0	2	45993	2	1	86		H
FEB 26,88	FEB 25,88	800	730	1200	1400	2	0.5	2	45995	2	1	102		HM
FEB 27,88	FEB 26,88	730	730	1200	2300	2	1.4	2	45997	2	1	62		
FEB 29,88	FEB 28,88	830	800	2100	800	2	4.2	2	45999	2	1	78		
MAR 2,88	MAR 1,88	830	800	200	800	2	1.2	2	76502	2	1	88		
MAR 3,88	MAR 2,88	800	830	800	900	2	0.5	2	76504	2	1	124		N
MAR 9,88	MAR 8,88	800	750	300	750	1	6.5	2	76509	2	1	102		
MAR 10,88	MAR 9,88	750	750	750	1100	1	1.5	2	76511	2	1	202		N
MAR 12,88	MAR 11,88	750	750	100	300	2	****	*	76515	2	1	****		X
MAR 13,88	MAR 12,88	750	750	1500	750	3	8.0	2	76517	2	1	82		
MAR 14,88	MAR 13,88	750	750	750	500	2	4.2	2	76519	2	1	83		
MAR 15,88	MAR 14,88	750	750	200	600	2	****	2	76521	2	1	****		X
MAR 19,88	MAR 18,88	800	800	2230	300	2	1.6	2	76523	2	1	106		
MAR 20,88	MAR 19,88	800	800	1600	1800	2	0.2	2	76525	2	1	109		C
MAR 25,88	MAR 24,88	800	700	2400	130	1	2.2	1	76527	2	1	101		
MAR 26,88	MAR 25,88	700	800	1030	1100	1	8.8	1	76529	2	1	96		
MAR 27,88	MAR 26,88	800	800	1630	2200	1	11.9	1	76531	2	1	98		
MAR 28,88	MAR 27,88	800	800	600	1800	2	0.3	2	76533	2	1	166		N
MAR 29,88	MAR 28,88	800	800	100	615	1	0.6	1	76535	2	1	137		N
MAR 30,88	MAR 29,88	800	730	1930	2230	1	****	*	76537	2	1	****		
MAR 31,88	MAR 30,88	730	715	900	1000	1	1.8	1	76539	2	1	85		J
APR 3,88	APR 2,88	800	800	500	800	1	10.2	1	76541	2	1	114		
APR 4,88	APR 3,88	800	800	800	900	1	11.0	1	76543	2	1	90		J
APR 5,88	APR 4,88	800	800	1200	1300	1	1.3	1	76545	2	1	46		N
APR 7,88	APR 6,88	800	800	300	800	1	2.0	1	76547	2	1	95		C
APR 8,88	APR 7,88	800	800	1600	2400	1	9.0	1	76549	2	1	88		
APR 13,88	APR 12,88	800	715	100	400	1	2.5	1	76551	2	1	97		JHM
APR 14,88	APR 13,88	715	800	500	800	1	4.1	1	76553	2	1	113		
APR 15,88	APR 14,88	800	710	800	1300	1	10.4	1	76555	2	1	87		
APR 16,88	APR 15,88	710	815	1700	2300	2	3.0	2	76557	2	1	59		C
APR 18,88	APR 17,88	800	805	1730	2300	3	3.6	1	76559	2	1	83		
APR 19,88	APR 18,88	805	800	500	800	2	1.2	2	76561	2	1	80		
APR 20,88	APR 19,88	800	700	800	1200	2	0.2	2	76563	2	1	62		
APR 21,88	APR 20,88	700	800	1900	2200	2	7.2	2	76565	2	1	94		JH
APR 22,88	APR 21,88	800	845	300	845	2	3.0	2	75371	2	1	57		HCN
APR 24,88	APR 23,88	830	900	2100	2400	3	18.0	1	76567	2	1	93		
APR 25,88	APR 24,88	900	700	930	1030	1	0.6	1	76571	2	1	54		HCN
APR 26,88	APR 25,88	700	800	500	730	1	5.3	1	76573	2	1	95		
APR 28,88	APR 27,88	800	800	2230	400	1	6.4	1	76575	2	1	94		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08 PAGE : 5

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
FEB 24,88	FEB 23,88	47.0	41.5	******	5.32	******	0.0262	0.75	0.25
FEB 25,88	FEB 24,88	222.0	8.0	4.91	5.35	******	0.0279	0.80	0.24
FEB 26,88	FEB 25,88	33.0	6.5	******	5.34	******	0.0266	0.65	0.11
FEB 27,88	FEB 26,88	56.0	28.0	******	4.39	******	0.0777	1.10	1.04
FEB 29,88	FEB 28,88	212.0	26.5	4.23	4.21	******	0.0863	0.85	1.05
MAR 2,88	MAR 1,88	68.0	47.5	******	4.46	******	0.0730	5.00	2.44
MAR 3,88	MAR 2,88	40.0	> 100.0	******	!IS ******	******	!IS ******	UG 11.60	UG 3.58
MAR 9,88	MAR 8,88	425.0	92.0	3.86	3.75	******	0.2200	8.20	1.94
MAR 10,88	MAR 9,88	195.0	36.0	4.39	4.40	******	0.0669	3.85	1.08
MAR 12,88	MAR 11,88	4.0	******	******	******	******	******	******	******
MAR 13,88	MAR 12,88	422.0	31.5	4.30	4.25	******	0.0818	2.60	0.64
MAR 14,88	MAR 13,88	226.0	26.5	4.38	4.33	******	0.0692	1.65	0.69
MAR 15,88	MAR 14,88	2.0	******	******	******	******	******	******	******
MAR 19,88	MAR 18,88	109.0	33.0	4.30	4.21	******	0.0841	1.65	1.00
MAR 20,88	MAR 19,88	14.0	LG 3.5	******	UG 6.02	******	0.0172	<T 0.15	LG 0.06
MAR 25,88	MAR 24,88	143.0	43.0	4.02	4.05	******	0.1270	4.85	0.77
MAR 26,88	MAR 25,88	547.0	28.5	4.30	4.40	******	0.0708	3.05	0.47
MAR 27,88	MAR 26,88	753.0	27.5	4.46	4.51	******	0.0630	2.50	0.80
MAR 28,88	MAR 27,88	32.0	7.0	******	4.97	******	0.0316	1.10	LG 0.09
MAR 29,88	MAR 28,88	53.0	27.5	******	4.42	******	0.0647	3.05	0.63
MAR 30,88	MAR 29,88	24.0	> 100.0	******	3.64	******	UG 0.2920	UG 15.70	1.90
MAR 31,88	MAR 30,88	99.0	43.5	D 4.60	4.23	******	0.0958	5.45	0.75
APR 3,88	APR 2,88	750.0	35.5	4.11	4.17	******	0.0957	2.95	0.46
APR 4,88	APR 3,88	640.0	11.0	4.12	4.79	******	0.0358	1.05	0.11
APR 5,88	APR 4,88	39.0	24.5	******	4.50	******	0.0588	2.40	0.54
APR 7,88	APR 6,88	123.0	> 100.0	LG 3.41	LG 3.37	******	UG 0.5220	UG 17.30	UG 4.20
APR 8,88	APR 7,88	512.0	59.0	3.91	3.91	******	0.1570	5.05	0.94
APR 13,88	APR 12,88	157.0	17.5	UG 5.11	UG 7.42	******	0.0165	2.30	0.75
APR 14,88	APR 13,88	298.0	62.0	3.94	3.98	******	0.1440	4.85	1.46
APR 15,88	APR 14,88	581.0	45.0	4.07	4.10	******	0.1090	4.10	0.92
APR 16,88	APR 15,88	114.0	19.5	4.56	4.59	******	0.0432	1.50	LG 0.08
APR 18,88	APR 17,88	192.0	19.0	UG 6.51	UG 7.13	******	0.0152	1.95	0.63
APR 19,88	APR 18,88	62.0	7.0	******	4.99	******	0.0263	0.95	LG 0.06
APR 20,88	APR 19,88	8.0	LG 3.0	******	UG 5.62	******	0.0176	0.25	<W 0.01
APR 21,88	APR 20,88	434.0	13.5	UG 5.05	UG 6.15	******	0.0201	1.60	0.69
APR 22,88	APR 21,88	110.0	6.5	******	UG 6.88	******	0.0152	0.55	LG 0.08
APR 24,88	APR 23,88	1077.0	32.0	4.22	4.23	******	0.0865	2.85	0.56
APR 25,88	APR 24,88	21.0	LG 2.5	******	UG 5.57	******	0.0192	<T 0.05	<T 0.02
APR 26,88	APR 25,88	323.0	21.5	4.48	4.58	******	0.0526	1.85	0.81
APR 28,88	APR 27,88	388.0	33.0	4.18	4.15	******	0.0980	1.90	0.80

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08 PAGE : 6

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
FEB 24,88	FEB 23,88	!IS ******	UG 10.86	!IS ******	!IS ******	!IS ******	0.030	0.0048
FEB 25,88	FEB 24,88	0.24	0.57	0.040	0.035	0.365	0.120	0.0045
FEB 26,88	FEB 25,88	<T 0.08	0.55	<T 0.015	<T 0.010	0.370	0.040	0.0046
FEB 27,88	FEB 26,88	0.56	0.85	0.055	<T 0.015	0.445	0.280	0.0407
FEB 29,88	FEB 28,88	0.18	0.33	<T 0.020	<T 0.015	0.165	0.310	0.0617
MAR 2,88	MAR 1,88	1.72	0.50	0.140	0.060	0.165	2.150	0.0347
MAR 3,88	MAR 2,88	1.84	UG 1.37	0.210	0.135	UG 0.625	!IR ******	!IS ******
MAR 9,88	MAR 8,88	1.08	0.52	0.140	0.085	0.230	1.240	0.1778
MAR 10,88	MAR 9,88	0.50	0.26	0.050	0.070	0.130	1.240	0.0398
MAR 12,88	MAR 11,88	******	******	******	******	******	******	******
MAR 13,88	MAR 12,88	0.28	0.13	0.030	0.030	0.065	0.360	0.0562
MAR 14,88	MAR 13,88	0.12	0.08	<T 0.010	<T 0.015	0.040	0.480	0.0468
MAR 15,88	MAR 14,88	******	******	******	******	******	******	******
MAR 19,88	MAR 18,88	0.14	0.26	<T 0.020	<T 0.015	0.065	0.580	0.0617
MAR 20,88	MAR 19,88	<W 0.02	0.12	<W 0.005	<T 0.005	0.080	0.120	UG 0.0010
MAR 25,88	MAR 24,88	0.48	0.31	0.070	0.045	0.150	0.480	0.0891
MAR 26,88	MAR 25,88	0.38	0.28	0.050	0.045	0.250	0.300	0.0398
MAR 27,88	MAR 26,88	0.50	0.12	0.060	0.040	0.030	0.670	0.0309
MAR 28,88	MAR 27,88	!IS ******	<T 0.03	!IS ******	!IS ******	!IS ******	0.120	0.0107
MAR 29,88	MAR 28,88	0.68	0.23	0.060	0.045	0.155	0.370	0.0380
MAR 30,88	MAR 29,88	!IS ******	0.90	!IS ******	!IS ******	!IS ******	0.980	0.2291
MAR 31,88	MAR 30,88	1.20	0.36	0.135	0.075	0.255	0.380	0.0589
APR 3,88	APR 2,88	0.14	0.24	<T 0.025	0.045	0.130	0.250	0.0676
APR 4,88	APR 3,88	<T 0.04	<T 0.02	<T 0.005	<T 0.020	0.030	0.060	0.0162
APR 5,88	APR 4,88	0.20	0.21	0.025	0.055	0.130	0.500	0.0316
APR 7,88	APR 6,88	2.22	0.89	0.230	UG 0.255	0.410	1.370	LG 0.4266
APR 8,88	APR 7,88	0.18	0.14	<T 0.020	0.040	0.050	0.520	0.1230
APR 13,88	APR 12,88	1.00	0.21	0.100	0.070	0.115	0.680	UG 0.0000
APR 14,88	APR 13,88	0.72	0.35	0.090	0.075	0.115	0.830	0.1047
APR 15,88	APR 14,88	0.18	0.17	0.040	0.030	0.040	0.840	0.0794
APR 16,88	APR 15,88	0.12	<T 0.04	<T 0.005	<W 0.005	0.035	0.040	0.0257
APR 18,88	APR 17,88	1.24	0.18	0.230	0.110	0.070	0.610	UG 0.0001
APR 19,88	APR 18,88	!IR ******	<T 0.03	!IR ******	<W 0.005	0.040	0.050	0.0102
APR 20,88	APR 19,88	<T 0.04	0.10	<T 0.005	0.040	0.045	!IS ******	UG 0.0024
APR 21,88	APR 20,88	0.52	0.12	0.095	0.030	0.050	0.620	UG 0.0007
APR 22,88	APR 21,88	0.26	<T 0.02	0.025	<T 0.005	0.035	0.080	UG 0.0001
APR 24,88	APR 23,88	<T 0.06	0.08	<T 0.010	0.085	0.035	0.420	0.0589
APR 25,88	APR 24,88	<T 0.02	<T 0.04	<W 0.005	0.040	0.035	<T 0.020	UG 0.0027
APR 26,88	APR 25,88	0.30	0.08	0.065	0.025	0.025	0.640	0.0263
APR 28,88	APR 27,88	0.20	0.12	0.030	<T 0.020	0.030	0.250	0.0708

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
APR 29,88	APR 28,88	800	700	1630	1900	1	0.7	1	76577	2	1	26		N
APR 30,88	APR 29,88	700	815	700	1600	1	1.4	1	76579	2	1	62		
MAY 9,88	MAY 8,88	810	800	200	730	1	0.2	1	76584	2	1	78		
MAY 10,88	MAY 9,88	800	800	2200	700	1	5.2	1	76586	2	1	100		
MAY 11,88	MAY 10,88	800	800	1000	1300	1	1.6	1	76588	2	1	77		
MAY 12,88	MAY 11,88	800	800	730	800	1	****	1	76590	2	1	****	E	
MAY 13,88	MAY 12,88	800	700	500	600	1	2.0	1	76592	2	1	93		
MAY 14,88	MAY 13,88	700	830	700	930	1	6.6	1	76594	2	1	93	B	
MAY 16,88	MAY 15,88	820	800	2100	100	1	28.0	1	76596	2	1	101		
MAY 17,88	MAY 16,88	800	800	1600	1700	1	0.4	1	76600	2	1	62		
MAY 20,88	MAY 19,88	800	700	1900	500	1	2.6	1	76602	2	1	98		HM
MAY 21,88	MAY 20,88	700	820	1000	1900	1	10.3	1	76604	2	1	99		CM
MAY 22,88	MAY 21,88	820	800	****	****	1	4.5	1	76606	2	1	113	BC	
MAY 27,88	MAY 26,88	800	700	1600	1900	1	****	1	76608	2	1	****	Q	
JUN 2,88	JUN 1,88	750	800	930	1100	1	1.0	1	76610	2	1	U 62	JB	H
JUN 3,88	JUN 2,88	800	700	1600	2200	1	0.2	1	76612	2	1	23	B	N
JUN 7,88	JUN 6,88	800	800	1600	1900	1	****	1	76614	2	1	****	B	X
JUN 22,88	JUN 21,88	800	800	500	800	1	6.6	1	76616	2	1	101		
JUN 23,88	JUN 22,88	800	715	800	1200	1	9.2	1	76618	2	1	98		
JUN 25,88	JUN 24,88	755	820	****	****	1	0.3	1	76620	2	1	83		
JUN 26,88	JUN 25,88	820	815	930	1000	1	6.8	1	76622	2	1	92		
JUN 27,88	JUN 26,88	815	700	830	900	1	0.4	1	76624	2	1	3	E	N
JUN 28,88	JUN 27,88	700	800	700	730	1	****	1	76626	2	1	****	C	X
JUN 29,88	JUN 28,88	800	730	1030	1230	1	5.0	1	76628	2	1	102	B	N
JUN 30,88	JUN 29,88	730	710	2100	2300	1	1.8	1	76630	2	1	81		
JUL 1,88	JUN 30,88	710	800	730	800	1	0.5	1	76632	2	1	43		N
JUL 2,88	JUL 1,88	800	730	1400	1430	1	0.2	1	76634	2	1	124	C	
JUL 11,88	JUL 10,88	800	800	330	500	1	13.0	1	76636	2	1	104		
JUL 12,88	JUL 11,88	800	800	200	230	1	0.5	1	76640	2	1	43		
JUL 14,88	JUL 13,88	800	800	330	730	1	15.4	1	76642	2	1	100		
JUL 16,88	JUL 15,88	800	800	330	430	1	0.5	1	76644	2	1	31		
JUL 19,88	JUL 18,88	800	800	****	****	1	****	1	76646	2	1	****		
JUL 21,88	JUL 20,88	800	700	1830	1930	1	****	1	76648	2	1	****		
JUL 23,88	JUL 22,88	710	710	1245	1430	1	21.8	1	76650	2	1	103		
JUL 24,88	JUL 23,88	710	710	300	500	1	****	1	76652	2	1	****		X
JUL 25,88	JUL 24,88	710	800	830	1230	1	7.2	1	76654	2	1	123		N
JUL 26,88	JUL 25,88	800	800	130	630	1	1.0	1	76656.	2	1	96		
JUL 27,88	JUL 26,88	800	800	1700	1900	1	****	1	76658	2	1	****		X
JUL 28,88	JUL 27,88	800	800	1300	1400	1	0.2	1	76660	2	1	62		N
JUL 31,88	JUL 30,88	715	800	1200	1330	1	0.3	1	76662	2	1	114		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
API08 - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08 PAGE : 8

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
APR 29,88	APR 28,88	12.0	8.0	******	UCR 4.95	******	UCR 0.0330	0.35	0.20
APR 30,88	APR 29,88	56.0	22.5	******	UCR 4.46	******	UCR 0.0639	2.40	0.20
MAY 9,88	MAY 8,88	10.0	64.0	******	UCR 3.99	******	UCR 0.1510	6.75	0.92
MAY 10,88	MAY 9,88	334.0	65.5	3.90	3.96	******	0.1580	8.30	1.03
MAY 11,88	MAY 10,88	79.0	15.5	******	4.80	******	0.0367	1.55	0.38
MAY 12,88	MAY 11,88	1.0	******	******	******	******	******	******	******
MAY 13,88	MAY 12,88	120.0	43.0	4.28	4.55	******	0.0701	6.00	1.69
MAY 14,88	MAY 13,88	396.0	13.5	4.60	4.80	******	0.0365	1.95	0.27
MAY 16,88	MAY 15,88	1813.0	23.0	4.31	4.41	******	0.0595	2.75	0.43
MAY 17,88	MAY 16,88	16.0	24.0	******	4.41	******	0.0639	3.20	0.33
MAY 20,88	MAY 19,88	164.0	7.0	4.80	5.01	******	0.0290	0.70	0.19
MAY 21,88	MAY 20,88	655.0	LG 3.0	5.11	5.41	******	0.0214	<W 0.05	0.08
MAY 22,88	MAY 21,88	326.0	48.5	******	4.00	******	0.1340	3.50	0.82
MAY 27,88	MAY 26,88	2.0	******	******	******	******	******	******	******
JUN 2,88	JUN 1,88	40.0	43.0	******	4.91	******	0.0601	7.95	0.86
JUN 3,88	JUN 2,88	3.0	******	******	******	******	******	******	******
JUN 7,88	JUN 6,88	2.0	******	******	******	******	******	******	******
JUN 22,88	JUN 21,88	430.0	32.0	4.16	4.45	******	0.0689	4.00	0.74
JUN 23,88	JUN 22,88	583.0	12.5	4.42	4.72	******	0.0404	1.20	0.22
JUN 25,88	JUN 24,88	16.0	39.5	******	4.29	******	0.0809	5.60	0.58
JUN 26,88	JUN 25,88	404.0	33.5	4.10	4.27	******	0.0780	3.30	0.55
JUN 27,88	JUN 26,88	1.0	******	******	******	******	******	******	******
JUN 28,88	JUN 27,88	4.0	******	******	******	******	******	******	******
JUN 29,88	JUN 28,88	327.0	8.5	4.49	4.76	******	0.0359	0.75	<T 0.03
JUN 30,88	JUN 29,88	94.0	4.0	******	5.18	******	0.0288	0.50	<T 0.02
JUL 1,88	JUN 30,88	14.0	12.0	******	4.69	******	0.0378	1.50	<W 0.01
JUL 2,88	JUL 1,88	16.0	LG 2.5	******	UG 5.78	******	0.2380	LG 0.25	<W 0.01
JUL 11,88	JUL 10,88	868.0	14.0	4.41	4.62	******	0.0435	1.45	0.18
JUL 12,88	JUL 11,88	14.0	7.0	******	4.98	******	0.0276	0.45	0.12
JUL 14,88	JUL 13,88	990.0	34.0	4.21	4.31	******	0.0741	4.15	0.54
JUL 16,88	JUL 15,88	10.0	22.5	******	4.42	******	0.0590	2.25	0.47
JUL 19,88	JUL 18,88	9.0	12.5	******	5.21	******	0.0242	1.30	0.49
JUL 21,88	JUL 20,88	20.0	21.0	******	4.55	******	0.0521	3.35	0.20
JUL 23,88	JUL 22,88	1452.0	9.5	4.44	4.80	******	0.0354	0.80	0.14
JUL 24,88	JUL 23,88	6.0	******	******	******	******	******	******	******
JUL 25,88	JUL 24,88	572.0	7.5	4.55	4.80	******	0.0302	0.60	0.14
JUL 26,88	JUL 25,88	62.0	52.0	******	4.00	******	0.1270	4.85	1.07
JUL 27,88	JUL 26,88	4.0	******	******	******	******	******	******	******
JUL 28,88	JUL 27,88	8.0	6.0	******	5.08	******	0.0207	0.40	0.11
JUL 31,88	JUL 30,88	22.0	!IS ******	******	4.12	******	0.1010	!IS ******	!IS ******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08 PAGE : 9

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
APR 29,88	APR 28,88	0.10	0.11	<T 0.005	<T 0.020	0.045	0.040	UCR 0.0112
APR 30,88	APR 29,88	0.12	0.15	<T 0.010	0.025	0.070	0.180	UCR 0.0347
MAY 9,88	MAY 8,88	0.98	0.30	0.130	0.145	0.075	0.300	UCR 0.1023
MAY 10,88	MAY 9,88	0.82	0.42	0.110	0.190	0.140	1.050	0.1096
MAY 11,88	MAY 10,88	0.14	0.09	<T 0.015	0.030	<T 0.020	0.370	0.0158
MAY 12,88	MAY 11,88	******	******	******	******	******	******	******
MAY 13,88	MAY 12,88	2.06	0.30	0.345	0.105	0.105	1.250	0.0282
MAY 14,88	MAY 13,88	0.24	<T 0.03	0.040	0.050	<T 0.020	0.390	0.0158
MAY 16,88	MAY 15,88	0.28	0.06	0.040	<T 0.010	<W 0.005	0.490	0.0389
MAY 17,88	MAY 16,88	0.54	0.08	0.075	0.095	0.105	0.140	0.0389
MAY 20,88	MAY 19,88	D 0.32	<T 0.02	<T 0.015	<T 0.025	<T 0.020	0.108	0.0098
MAY 21,88	MAY 20,88	<W 0.02	<W 0.01	<W 0.005	<W 0.005	<T 0.005	LG 0.016	0.0039
MAY 22,88	MAY 21,88	0.16	0.08	<T 0.020	0.060	<T 0.020	0.240	0.1000
MAY 27,88	MAY 26,88	******	******	******	******	******	******	******
JUN 2,88	JUN 1,88	D 1.90	0.27	0.475	B 0.885	0.185	1.020	0.0123
JUN 3,88	JUN 2,88	******	******	******	******	******	******	******
JUN 7,88	JUN 6,88	******	******	******	******	******	******	******
JUN 22,88	JUN 21,88	0.64	0.17	0.100	0.060	0.065	0.920	0.0355
JUN 23,88	JUN 22,88	<T 0.08	<T 0.03	<T 0.015	<T 0.015	<T 0.010	0.250	0.0191
JUN 25,88	JUN 24,88	!IS ******	0.14	!IS ******	!IS ******	!IS ******	0.448	0.0513
JUN 26,88	JUN 25,88	0.36	0.12	0.050	0.040	0.030	0.430	0.0537
JUN 27,88	JUN 26,88	******	******	******	******	******	******	******
JUN 28,88	JUN 27,88	******	******	******	******	******	******	******
JUN 29,88	JUN 28,88	<T 0.04	<W 0.01	<T 0.005	<T 0.015	<T 0.005	<T 0.020	0.0174
JUN 30,88	JUN 29,88	<T 0.04	<T 0.04	<T 0.005	<T 0.010	0.025	<T 0.018	0.0066
JUL 1,88	JUN 30,88	<T 0.06	<T 0.04	<T 0.005	0.035	0.035	!IS ******	0.0204
JUL 2,88	JUL 1,88	!IS ******	0.05	!IS ******	!IS ******	!IS ******	<T 0.020	UG 0.0017
JUL 11,88	JUL 10,88	<T 0.04	<T 0.03	<T 0.005	<T 0.015	<T 0.015	0.158	0.0240
JUL 12,88	JUL 11,88	!IS ******	<T 0.05	!IS ******	!IS ******	!IS ******	<T 0.018	0.0105
JUL 14,88	JUL 13,88	0.22	0.09	0.055	0.025	<T 0.015	0.698	0.0490
JUL 16,88	JUL 15,88	!IS ******	0.08	!IS ******	!IS ******	!IS ******	0.196	0.0380
JUL 19,88	JUL 18,88	!IS ******	0.13	!IS ******	!IS ******	!IS ******	0.512	0.0062
JUL 21,88	JUL 20,88	!IS ******	0.11	!IS ******	!IS ******	!IS ******	0.134	0.0282
JUL 23,88	JUL 22,88	<T 0.06	<W 0.01	<T 0.010	<T 0.010	<T 0.010	0.126	0.0158
JUL 24,88	JUL 23,88	******	******	******	******	******	******	******
JUL 25,88	JUL 24,88	<T 0.04	<T 0.03	<T 0.005	<T 0.010	<W 0.005	0.102	0.0158
JUL 26,88	JUL 25,88	!IS ******	0.23	!IS ******	!IS ******	!IS ******	0.930	0.1000
JUL 27,88	JUL 26,88	******	******	******	******	******	******	******
JUL 28,88	JUL 27,88	!IS ******	0.09	!IS ******	!IS ******	!IS ******	<T 0.018	0.0083
JUL 31,88	JUL 30,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	0.310	0.0759

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
OCT 6,88	OCT 5,88	800	800	800	1100	1	2.9	1	767[illegible]	2	1	60		
OCT 8,88	OCT 7,88	800	815	1200	1800	1	1.2	1	76755	2	1	57		N
OCT 11,88	OCT 10,88	800	800	1230	130	1	10.0	1	76757	2	1	101		C
OCT 12,88	OCT 11,88	800	800	1130	1700	3	3.4	1	76759	2	1	61		C
OCT 13,88	OCT 12,88	800	800	830	2430	3	****	1	76761	2	1	****		
OCT 17,88	OCT 16,88	800	800	645	700	1	1.[illegible]	1	76763	2	1	93		
OCT 18,88	OCT 17,88	800	800	2045	730	1	32.4	1	76765	2	1	99		NHM
OCT 19,88	OCT 18,88	800	800	820	900	1	0.6	1	76767	2	1	23		
OCT 22,88	OCT 21,88	800	800	1700	400	1	4.7	1	76771	2	1	99		
OCT 23,88	OCT 22,88	800	800	800	1100	1	1.5	1	76773	2	1	60		
OCT 24,88	OCT 23,88	800	800	2130	400	1	3.0	1	76775	2	1	100		
OCT 25,88	OCT 24,88	800	800	1700	200	1	6.6	1	76777	2	1	105		
OCT 26,88	OCT 25,88	800	800	800	1530	1	7.4	1	76779	2	1	53		
OCT 27,88	OCT 26,88	800	800	2330	700	3	8.6	1	76781	2	1	107		
OCT 28,88	OCT 27,88	800	800	****	800	1	8.4	1	76783	2	1	109		
OCT 29,88	OCT 28,88	800	800	830	30	3	8.4	2	76785	2	1	110		
OCT 30,88	OCT 29,88	800	800	800	1300	2	1.0	2	76787	2	1	102		
NOV 2,88	NOV 1,88	800	800	1500	1510	1	0.2	1	76789	2	1	62		N
NOV 4,88	NOV 3,88	800	800	500	630	1	2.6	2	76791	2	1	106		
NOV 5,88	NOV 4,88	800	800	2030	2200	1	3.8	1	76793	2	1	102		
NOV 6,88	NOV 5,88	800	800	1600	2100	1	20.2	1	76795	2	1	101		N
NOV 7,88	NOV 6,88	800	800	1800	2130	1	2.4	1	76797	2	1	87		
NOV 8,88	NOV 7,88	800	800	200	730	1	1.0	1	76799	2	1	74		
NOV 9,88	NOV 8,88	800	800	1030	1730	1	2.2	1	76801	2	1	95		
NOV 10,88	NOV 9,88	800	800	300	800	3	17.4	1	76803	2	1	103	Q	N
NOV 11,88	NOV 10,88	800	800	1100	1600	1	7.8	1	76805	2	1	96		
NOV 13,88	NOV 12,88	800	800	30	800	3	11.2	2	76807	2	1	105		
NOV 14,88	NOV 13,88	800	800	800	1830	1	12.7	1	76809	2	1	68		
NOV 15,88	NOV 14,88	800	800	1200	1800	1	1.0	1	76811	2	1	31		
NOV 17,88	NOV 16,88	800	800	1630	1830	3	2.0	1	76813	2	1	96		
NOV 18,88	NOV 17,88	800	800	830	400	2	3.6	2	76815	2	1	99		HM
NOV 20,88	NOV 19,88	800	800	2100	800	3	0.3	4	76817	2	1	93	Q	N
NOV 21,88	NOV 20,88	800	800	800	****	3	6.3	2	76819	2	1	104		HM
NOV 24,88	NOV 23,88	800	800	830	1030	2	****	2	76821	2	1	****	QE	
NOV 27,88	NOV 26,88	800	800	1700	630	1	4.8	1	76823	2	1	98		JCM
NOV 28,88	NOV 27,88	800	800	****	800	1	0.8	1	76825	2	1	74		N
NOV 29,88	NOV 28,88	800	800	900	2300	3	3.6	1	76827	2	1	108		
NOV 30,88	NOV 29,88	800	800	130	800	2	0.6	2	76829	2	1	72		
DEC 1,88	NOV 30,88	800	800	800	430	2	4.4	2	76831	2	1	104		
DEC 2,88	DEC 1,88	800	800	430	745	2	0.6	2	76833	2	1	101		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08 PAGE : 10

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
AUG 6,88	AUG 5,88	755	715	1930	2030	1	4.6	1	76664	2	1	105	B	
AUG 9,88	AUG 8,88	800	800	600	830	1	6.4	1	76668	2	1	119		
AUG 10,88	AUG 9,88	800	800	1900	2100	1	22.7	1	76670	2	1	68		
AUG 11,88	AUG 10,88	800	800	630	800	1	0.5	1	76674	2	1	90		
AUG 12,88	AUG 11,88	800	800	800	930	1	2.2	1	76676	2	1	78		
AUG 14,88	AUG 13,88	730	810	300	330	1	2.2	1	76678	2	1	106		
AUG 15,88	AUG 14,88	810	800	2100	2130	1	10.2	1	76680	2	1	104	C	
AUG 16,88	AUG 15,88	800	800	800	****	1	0.3	1	76682	2	1	119		N
AUG 17,88	AUG 16,88	800	800	630	800	1	2.2	1	76684	2	1	106		
AUG 18,88	AUG 17,88	800	800	800	1030	1	2.0	1	76686	2	1	88		
AUG 21,88	AUG 20,88	745	755	1830	1900	1	5.4	1	76688	2	1	96		
AUG 24,88	AUG 23,88	755	745	2100	740	1	2.2	1	76690	2	1	92		
AUG 25,88	AUG 24,88	745	745	1730	2000	1	8.0	1	76692	2	1	74		C
AUG 26,88	AUG 25,88	745	745	900	1600	1	17.3	1	76694	2	1	99		NHH
AUG 27,88	AUG 26,88	745	810	900	1400	1	1.8	1	76698	2	1	88		HH
AUG 28,88	AUG 27,88	810	810	2300	800	1	0.6	1	76700	2	1	93		
AUG 29,88	AUG 28,88	810	800	1000	1400	1	1.2	1	76702	2	1	76		T
AUG 30,88	AUG 29,88	800	800	1500	1700	1	0.6	1	76704	2	1	140		N
AUG 31,88	AUG 30,88	800	800	1600	1800	1	3.6	1	76706	2	1	94		HH
SEP 1,88	AUG 31,88	800	800	530	630	1	3.2	1	76708	2	1	95		
SEP 4,88	SEP 3,88	744	743	1700	700	1	16.6	1	76710	2	1	100		NT
SEP 5,88	SEP 4,88	743	815	1700	230	1	18.4	1	76714	2	1	105		N
SEP 6,88	SEP 5,88	815	800	1400	2000	1	0.5	1	76716	2	1	46		NHH
SEP 7,88	SEP 6,88	800	800	1730	2000	1	2.0	1	76718	2	1	92		HH
SEP 13,88	SEP 12,88	830	800	1920	300	1	1.8	1	76721	2	1	104		
SEP 14,88	SEP 13,88	800	800	615	750	1	0.8	1	76723	2	1	62		
SEP 15,88	SEP 14,88	800	800	1625	1830	1	0.2	1	76725	2	1	23		N
SEP 17,88	SEP 16,88	800	815	400	700	1	5.5	1	76727	2	1	100		
SEP 18,88	SEP 17,88	815	815	1200	1230	1	2.0	1	76729	2	1	96		
SEP 20,88	SEP 19,88	800	800	130	750	1	23.2	1	76731	2	1	103		N
SEP 21,88	SEP 20,88	800	800	1300	2000	1	6.6	1	76733	2	1	135		
SEP 22,88	SEP 21,88	800	740	845	910	1	0.6	1	76735	2	1	91		
SEP 23,88	SEP 22,88	740	750	2300	800	1	6.7	1	76737	2	1	U 108	FJ	
SEP 24,88	SEP 23,88	750	800	800	900	1	****	1	76739	2	1	****	FJ	
SEP 27,88	SEP 26,88	800	800	1800	2100	1	0.8	1	76741	2	1	U 70	FJ	
SEP 28,88	SEP 27,88	800	800	1230	1400	1	7.7	1	76743	2	1	U 49	FJ	JHH
OCT 1,88	SEP 30,88	800	800	1820	2000	1	0.2	1	76745	2	1	U 171	FJ	
OCT 2,88	OCT 1,88	800	800	1930	800	1	22.8	1	76747	2	1	101		N
OCT 3,88	OCT 2,88	800	800	800	1330	1	5.8	1	76749	2	1	97		
OCT 5,88	OCT 4,88	800	800	1830	800	1	24.0	1	76751	2	1	102		N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08 PAGE : 11

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
AUG 6,88	AUG 5,88	311.0	95.5	3.73	3.73	******	0.2240	10.80	1.04
AUG 9,88	AUG 8,88	489.0	39.5	4.10	4.19	******	0.0924	3.55	0.64
AUG 10,88	AUG 9,88	1000.0	20.0	4.38	4.46	******	0.0549	1.90	0.26
AUG 11,88	AUG 10,88	29.0	32.0	******	4.19	******	0.0897	3.30	0.42
AUG 12,88	AUG 11,88	111.0	15.0	4.41	4.49	******	0.0543	1.45	0.23
AUG 14,88	AUG 13,88	150.0	89.0	3.77	3.71	******	0.2330	10.60	1.41
AUG 15,88	AUG 14,88	681.0	10.5	4.57	4.85	******	0.0375	1.55	0.24
AUG 16,88	AUG 15,88	23.0	13.0	******	4.51	******	0.0539	D 1.85	0.09
AUG 17,88	AUG 16,88	150.0	20.0	4.33	4.43	******	0.0590	1.75	0.79
AUG 18,88	AUG 17,88	113.0	15.0	4.40	4.55	******	0.0537	1.75	0.39
AUG 21,88	AUG 20,88	335.0	24.0	4.16	4.22	******	0.0859	3.10	0.10
AUG 24,88	AUG 23,88	131.0	47.0	3.94	3.93	******	0.1440	3.95	0.92
AUG 25,88	AUG 24,88	380.0	25.5	4.35	4.45	******	0.0549	1.65	0.27
AUG 26,88	AUG 25,88	1105.0	LG 3.0	5.03	5.23	******	0.0237	LG 0.25	<T 0.05
AUG 27,88	AUG 26,88	102.0	9.0	4.60	4.58	******	0.0413	1.05	<W 0.01
AUG 28,88	AUG 27,88	36.0	84.0	******	!IS ******	******	!IS ******	8.30	1.80
AUG 29,88	AUG 28,88	59.0	69.0	******	3.75	******	0.1770	5.40	1.92
AUG 30,88	AUG 29,88	54.0	14.5	******	4.51	******	0.0482	1.25	0.44
AUG 31,88	AUG 30,88	217.0	21.0	4.37	4.32	******	0.0564	1.80	LG 0.06
SEP 1,88	AUG 31,88	195.0	55.5	3.97	3.92	******	0.1280	6.70	1.52
SEP 4,88	SEP 3,88	1067.0	80.0	3.70	3.61	******	0.2240	8.25	0.84
SEP 5,88	SEP 4,88	1242.0	17.0	4.32	4.40	******	0.0635	1.90	0.08
SEP 6,88	SEP 5,88	15.0	LG 3.0	******	5.22	******	0.0249	<T 0.15	<T 0.01
SEP 7,88	SEP 6,88	118.0	3.5	4.79	5.24	******	0.0239	<T 0.20	<T 0.04
SEP 13,88	SEP 12,88	120.0	58.5	3.92	3.99	******	0.1520	7.65	1.00
SEP 14,88	SEP 13,88	32.0	13.0	******	!IS ******	******	!IS ******	2.00	0.32
SEP 15,88	SEP 14,88	3.0	******	******	******	******	******	******	******
SEP 17,88	SEP 16,88	356.0	42.0	4.02	4.05	******	0.1320	4.05	0.69
SEP 18,88	SEP 17,88	124.0	57.0	3.94	3.95	******	0.1580	6.00	0.96
SEP 20,88	SEP 19,88	1540.0	25.0	4.29	4.29	******	0.0787	2.90	0.36
SEP 21,88	SEP 20,88	574.0	12.0	4.59	4.71	******	0.0410	1.55	0.26
SEP 22,88	SEP 21,88	35.0	!IS ******	******	4.89	******	0.0389	!IS ******	!IS ******
SEP 23,88	SEP 22,88	466.0	55.0	3.85	3.89	******	0.1620	4.70	1.08
SEP 24,88	SEP 23,88	2.0	******	******	******	******	******	******	******
SEP 27,88	SEP 26,88	36.0	20.0	******	!IS ******	******	!IS ******	3.30	0.87
SEP 28,88	SEP 27,88	242.0	25.0	UG 5.24	UG 7.21	******	0.0211	6.15	0.99
OCT 1,88	SEP 30,88	22.0	13.5	******	UG 5.71	******	0.0285	2.70	0.57
OCT 2,88	OCT 1,88	1487.0	13.0	4.53	4.67	******	0.0446	2.10	0.28
OCT 3,88	OCT 2,88	362.0	9.5	4.62	4.68	******	0.0401	0.80	0.14
OCT 5,88	OCT 4,88	1578.0	9.5	4.67	4.70	******	0.0406	0.70	0.27

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08 PAGE : 12

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
AUG 6,88	AUG 5,88	0.86	0.21	0.145	0.055	0.030	0.746	0.1862
AUG 9,88	AUG 8,88	0.44	0.15	0.095	0.040	0.040	0.220	0.0646
AUG 10,88	AUG 9,88	<T 0.04	<T 0.04	<T 0.010	<T 0.015	<T 0.010	0.252	0.0347
AUG 11,88	AUG 10,88	!IS ******	0.20	!IS ******	!IS ******	!IS ******	0.234	0.0646
AUG 12,88	AUG 11,88	<T 0.02	<T 0.03	<T 0.005	<T 0.020	<T 0.020	0.076	0.0324
AUG 14,88	AUG 13,88	0.92	0.66	0.180	0.090	0.150	0.960	0.1950
AUG 15,88	AUG 14,88	<T 0.04	<T 0.03	<T 0.020	0.025	<T 0.015	0.356	0.0141
AUG 16,88	AUG 15,88	!IS ******	0.20	!IS ******	!IS ******	!IS ******	<W 0.006	0.0309
AUG 17,88	AUG 16,88	0.26	0.13	0.040	0.050	0.075	0.390	0.0372
AUG 18,88	AUG 17,88	<T 0.08	0.06	<T 0.015	<T 0.020	0.025	0.350	0.0282
AUG 21,88	AUG 20,88	<T 0.06	0.07	<T 0.015	<T 0.020	0.030	<T 0.006	0.0603
AUG 24,88	AUG 23,88	0.14	0.09	<T 0.015	0.035	0.025	0.256	0.1175
AUG 25,88	AUG 24,88	<T 0.04	0.15	<T 0.005	<T 0.025	0.030	0.106	0.0355
AUG 26,88	AUG 25,88	<T 0.08	<W 0.01	<T 0.010	<T 0.015	<T 0.005	0.140	0.0059
AUG 27,88	AUG 26,88	<W 0.02	<W 0.01	<W 0.005	<T 0.010	<T 0.005	0.096	0.0263
AUG 28,88	AUG 27,88	0.90	0.40	0.160	0.145	0.040	1.160	!IS ******
AUG 29,88	AUG 28,88	0.36	0.80	0.065	0.060	0.030	1.270	0.1778
AUG 30,88	AUG 29,88	0.20	0.13	0.030	0.090	0.080	0.266	0.0309
AUG 31,88	AUG 30,88	<W 0.02	B 1.83	<W 0.005	<T 0.020	<T 0.010	0.110	0.0479
SEP 1,88	AUG 31,88	1.54	0.33	0.195	0.080	0.085	0.420	0.1202
SEP 4,88	SEP 3,88	0.12	0.13	<T 0.010	0.025	<T 0.015	0.346	0.2455
SEP 5,88	SEP 4,88	<W 0.02	<W 0.01	<W 0.005	<W 0.005	<W 0.005	0.120	0.0398
SEP 6,88	SEP 5,88	<T 0.02	<T 0.05	<W 0.005	<T 0.015	0.045	<W 0.006	0.0060
SEP 7,88	SEP 6,88	<T 0.04	0.05	<T 0.010	0.025	0.045	<T 0.020	0.0058
SEP 13,88	SEP 12,88	0.86	0.25	0.140	0.055	0.110	0.760	0.1023
SEP 14,88	SEP 13,88	0.24	0.10	0.055	0.075	0.125	0.290	!IS ******
SEP 15,88	SEP 14,88	******	******	******	******	******	******	******
SEP 17,88	SEP 16,88	0.16	0.12	<T 0.020	0.025	<T 0.020	0.180	0.0891
SEP 18,88	SEP 17,88	0.10	0.08	<T 0.020	<T 0.025	<T 0.020	0.680	0.1122
SEP 20,88	SEP 19,88	<T 0.04	0.08	<T 0.010	<T 0.015	0.025	0.240	0.0513
SEP 21,88	SEP 20,88	0.10	<W 0.01	<T 0.015	<T 0.015	<W 0.005	0.300	0.0195
SEP 22,88	SEP 21,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	<T 0.016	0.0129
SEP 23,88	SEP 22,88	0.14	0.24	<T 0.015	0.030	0.060	0.516	0.1288
SEP 24,88	SEP 23,88	******	******	******	******	******	******	******
SEP 27,88	SEP 26,88	!IS ******	0.17	!IS ******	!IS ******	!IS ******	0.870	!IS ******
SEP 28,88	SEP 27,88	2.06	0.17	0.260	0.105	0.045	1.220	UG 0.0001
OCT 1,88	SEP 30,88	1.12	0.16	0.140	0.195	0.085	0.360	UG 0.0019
OCT 2,88	OCT 1,88	0.22	0.10	0.035	<T 0.015	0.060	0.376	0.0214
OCT 3,88	OCT 2,88	<T 0.04	<T 0.04	<W 0.005	<T 0.005	<W 0.005	0.046	0.0209
OCT 5,88	OCT 4,88	0.10	<T 0.03	<T 0.010	<T 0.015	0.025	0.140	0.0200

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM 808

PAGE : 14

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
OCT 6,88	OCT 5,88	112.0	6.0	4.82	4.84	******	0.0340	0.45	0.14
OCT 8,88	OCT 7,88	44.0	18.5	******	4.38	******	0.0687	2.30	0.38
OCT 11,88	OCT 10,88	648.0	14.5	4.50	4.52	******	0.0563	2.25	0.47
OCT 12,88	OCT 11,88	133.0	7.0	4.67	4.61	******	0.0468	1.10	<T 0.02
OCT 13,88	OCT 12,88	20.0	LG 2.0	******	5.43	******	0.0217	<T 0.25	<T 0.02
OCT 17,88	OCT 16,88	108.0	28.0	4.31	4.35	******	0.0741	3.20	0.83
OCT 18,88	OCT 17,88	2072.0	22.0	4.34	4.31	******	0.0751	2.05	<T 0.01
OCT 19,88	OCT 18,88	9.0	5.5	******	4.85	******	0.0369	0.70	<T 0.05
OCT 22,88	OCT 21,88	301.0	32.0	4.17	4.14	******	0.1010	1.85	0.94
OCT 23,88	OCT 22,88	58.0	23.0	******	4.27	******	0.0790	1.05	0.68
OCT 24,88	OCT 23,88	194.0	30.0	4.21	4.16	******	0.0962	1.80	0.85
OCT 25,88	OCT 24,88	446.0	12.0	4.66	4.66	******	0.0444	1.30	0.38
OCT 26,88	OCT 25,88	252.0	5.5	4.82	4.78	******	0.0372	0.55	0.09
OCT 27,88	OCT 26,88	591.0	8.0	4.65	4.71	******	0.0373	0.90	0.09
OCT 28,88	OCT 27,88	589.0	37.5	4.12	4.07	******	0.1140	2.80	0.88
OCT 29,88	OCT 28,88	595.0	14.5	4.56	4.56	******	0.0516	1.85	0.26
OCT 30,88	OCT 29,88	66.0	12.0	******	4.55	******	0.0498	1.50	<W 0.01
NOV 2,88	NOV 1,88	8.0	24.0	******	4.47	******	0.0607	1.65	1.15
NOV 4,88	NOV 3,88	178.0	29.0	4.25	4.13	******	0.1020	3.25	0.55
NOV 5,88	NOV 4,88	249.0	48.0	4.01	3.93	******	0.1450	4.50	1.00
NOV 6,88	NOV 5,88	1311.0	8.5	4.74	4.74	******	0.0424	0.80	0.16
NOV 7,88	NOV 6,88	134.0	20.5	4.41	4.33	******	0.0701	2.00	0.56
NOV 8,88	NOV 7,88	48.0	!IS ******	******	4.01	******	0.1220	!IS ******	!IS ******
NOV 9,88	NOV 8,88	135.0	29.0	4.18	4.14	******	0.0976	2.30	0.83
NOV 10,88	NOV 9,88	1156.0	32.0	4.16	4.11	******	0.1030	3.40	0.59
NOV 11,88	NOV 10,88	482.0	24.5	4.35	4.21	******	0.0948	2.80	0.35
NOV 13,88	NOV 12,88	757.0	25.5	4.31	4.18	******	0.0912	1.90	0.63
NOV 14,88	NOV 13,88	558.0	20.0	4.39	4.33	******	0.0695	1.80	0.35
NOV 15,88	NOV 14,88	20.0	15.5	******	4.45	******	0.0664	1.50	0.54
NOV 17,88	NOV 16,88	124.0	47.0	4.04	4.00	******	0.1370	5.70	0.94
NOV 18,88	NOV 17,88	229.0	11.0	4.82	4.91	******	0.0354	1.85	<W 0.01
NOV 20,88	NOV 19,88	18.0	!IS ******	******	3.94	******	0.1630	2.95	1.56
NOV 21,88	NOV 20,88	422.0	10.0	4.61	4.64	******	0.0465	1.15	<T 0.02
NOV 24,88	NOV 23,88	5.0	******	******	******	******	******	******	******
NOV 27,88	NOV 26,88	303.0	44.0	4.03	3.83	******	0.1650	3.95	0.74
NOV 28,88	NOV 27,88	38.0	!IS ******	******	3.83	******	0.1720	!IS ******	!IS ******
NOV 29,88	NOV 28,88	250.0	15.0	4.48 D	4.45	******	0.0545	1.55	0.36
NOV 30,88	NOV 29,88	28.0	!IS ******	******	4.13	******	0.1040	0.80	1.71
DEC 1,88	NOV 30,88	295.0	36.0	4.16	4.10	******	0.1010	1.70	1.19
DEC 2,88	DEC 1,88	39.0	!IS ******	******	4.65	******	0.0370	!IS ******	!IS ******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
OCT 6,88	OCT 5,88	<W 0.02	<W 0.01	<W 0.005	<T 0.005	<T 0.015	<T 0.020	0.0145
OCT 8,88	OCT 7,88	0.26	0.12	<T 0.025	0.040	0.130	<W 0.006	0.0417
OCT 11,88	OCT 10,88	0.10	0.08	<T 0.020	0.035	<T 0.015	0.620	0.0302
OCT 12,88	OCT 11,88	<T 0.02	<W 0.01	<W 0.005	<T 0.015	<T 0.005	<W 0.006	0.0245
OCT 13,88	OCT 12,88	<W 0.02	0.11	<T 0.005	0.035	0.075	<T 0.016	0.0037
OCT 17,88	OCT 16,88	0.24	0.05	0.040	0.045	0.040	0.926	0.0447
OCT 18,88	OCT 17,88	<T 0.06	<T 0.02	<T 0.005	<T 0.020	<T 0.015	0.286	0.0490
OCT 19,88	OCT 18,88	<T 0.08	<W 0.01	<T 0.010	0.030	0.025	!IS ******	0.0141
OCT 22,88	OCT 21,88	<T 0.08	0.07	<T 0.010	<T 0.020	<T 0.015	0.270	0.0724
OCT 23,88	OCT 22,88	<T 0.08	0.05	<T 0.010	<T 0.015	<T 0.025	0.070	0.0537
OCT 24,88	OCT 23,88	<T 0.08	<T 0.03	<T 0.015	<T 0.020	0.070	0.200	0.0692
OCT 25,88	OCT 24,88	0.18	<T 0.05	<T 0.020	<T 0.025	0.030	0.216	0.0219
OCT 26,88	OCT 25,88	<W 0.02	<W 0.01	<W 0.005	<T 0.010	<T 0.020	<T 0.010	0.0166
OCT 27,88	OCT 26,88	<W 0.02	<W 0.01	<W 0.005	<W 0.005	<W 0.005	0.086	0.0195
OCT 28,88	OCT 27,88	0.20	0.29	0.025	0.070	0.075	0.256	0.0851
OCT 29,88	OCT 28,88	0.10	<W 0.01	<T 0.020	<T 0.005	<W 0.005	0.350	0.0275
OCT 30,88	OCT 29,88	<T 0.04	<T 0.04	<T 0.010	<W 0.005	<T 0.015	<T 0.020	0.0282
NOV 2,88	NOV 1,88	1.12	0.32	0.135	0.035	0.095	0.260	0.0339
NOV 4,88	NOV 3,88	0.22	0.15	<T 0.015	<T 0.020	0.030	0.186	0.0741
NOV 5,88	NOV 4,88	0.22	0.48	0.035	0.040	0.205	0.386	0.1175
NOV 6,88	NOV 5,88	<W 0.02	0.10	<T 0.010	<T 0.005	0.050	0.096	0.0182
NOV 7,88	NOV 6,88	0.14	0.12	<T 0.020	<T 0.015	<T 0.025	0.330	0.0468
NOV 8,88	NOV 7,88	0.20	!IS ******	0.025	0.110	0.180	0.696	0.0977
NOV 9,88	NOV 8,88	<T 0.08	0.19	<T 0.010	<T 0.015	<T 0.015	0.446	0.0724
NOV 10,88	NOV 9,88	0.20	0.58	0.030	0.035	0.170	0.326	0.0776
NOV 11,88	NOV 10,88	<T 0.08	0.11	<T 0.010	<T 0.010	0.030	0.310	0.0617
NOV 13,88	NOV 12,88	0.14	0.15	<T 0.015	<T 0.015	0.050	0.270	0.0661
NOV 14,88	NOV 13,88	<T 0.04	0.09	<W 0.005	<T 0.005	<T 0.010	0.160	0.0468
NOV 15,88	NOV 14,88	!IS ******	0.09	!IS ******	!IS ******	!IS ******	0.360	0.0355
NOV 17,88	NOV 16,88	0.88	0.37	0.110	0.045	0.180	0.566	0.1000
NOV 18,88	NOV 17,88	0.28	0.07	0.055	<T 0.015	<T 0.015	0.346	0.0123
NOV 20,88	NOV 19,88	!IS ******	0.24	!IS ******	!IS ******	!IS ******	0.080	0.1148
NOV 21,88	NOV 20,88	0.10	<T 0.04	<T 0.010	<T 0.010	<T 0.025	0.076	0.0229
NOV 24,88	NOV 23,88	******	******	******	******	******	******	******
NOV 27,88	NOV 26,88	0.18	0.53	0.040	0.025	0.195	0.200	0.1479
NOV 28,88	NOV 27,88	0.52	!IS ******	0.075	0.095	0.180	1.120	0.1479
NOV 29,88	NOV 28,88	<W 0.02	0.21	<W 0.005	<T 0.010	<T 0.010	0.250 D	0.0355
NOV 30,88	NOV 29,88	0.86	0.40	0.065	0.035	0.120	0.040	0.0741
DEC 1,88	NOV 30,88	0.14	0.24	<T 0.025	0.030	0.035	0.330	0.0794
DEC 2,88	DEC 1,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	<T 0.010	0.0224

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
DEC 4,88	DEC 3,88	800	800	1530	1730	3	0.3	2	76835	2	1	150		
DEC 9,88	DEC 8,88	800	800	630	630	2	4.2	2	76843	2	1	90		
DEC 13,88	DEC 12,88	800	800	600	800	2	0.4	2	76846	2	1	89		
DEC 14,88	DEC 13,88	800	800	1100	1100	2	0.2	2	76848	2	1	257		N
DEC 15,88	DEC 14,88	800	800	1300	800	2	4.5	2	76850	2	1	72		
DEC 17,88	DEC 16,88	800	800	****	****	2	****	2	76854	2	1	****	Q	
DEC 18,88	DEC 17,88	800	800	****	****	2	0.3	2	76856	2	1	156		N
DEC 19,88	DEC 18,88	800	800	****	****	2	0.2	2	76858	2	1	163		
DEC 20,88	DEC 19,88	800	800	830	1045	3	0.6	2	76860	2	1	166		N
DEC 21,88	DEC 20,88	800	800	1400	300	3	6.2	2	76862	2	1	110	C	
DEC 23,88	DEC 22,88	800	800	330	800	3	5.8	2	76864	2	1	U 74	FJ	
DEC 24,88	DEC 23,88	800	800	****	****	2	4.6	2	76866	2	1	61		
DEC 25,88	DEC 24,88	800	800	****	****	2	4.4	2	76868	2	1	86		HM
DEC 26,88	DEC 25,88	800	900	****	****	2	0.1	2	76870	2	1	686		N
DEC 27,88	DEC 26,88	900	830	****	****	2	2.2	2	76872	2	1	98		CM
DEC 28,88	DEC 27,88	830	730	****	****	2	20.0	2	76874	2	1	75		N
DEC 29,88	DEC 28,88	730	800	****	****	2	0.7	2	76876	2	1	17		
DEC 30,88	DEC 29,88	800	745	****	****	2	0.5	2	76878	2	1	28		
DEC 31,88	DEC 30,88	745	820	****	****	2	1.8	2	76880	2	1	75		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #06

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
DEC 4,88	DEC 3,88	29.0	!IS	******		******	!IS	******	******	!IS	******	!IS	******	!IS	******
DEC 9,88	DEC 8,88	243.0		7.8		4.86		4.91	******		0.0275		0.30		0.20
DEC 13,88	DEC 12,88	23.0	!IS	******		******		4.59	******		0.0460	!IS	******	!IS	******
DEC 14,88	DEC 13,88	33.0	!IS	******		******		4.01	******		0.1410	!IS	******	!IS	******
DEC 15,88	DEC 14,88	210.0		40.6		4.14		4.13	******		0.1070		1.80		1.17
DEC 17,88	DEC 16,88	9.0	!IS	******		******	UG	5.99	******		0.0158	!IS	******	!IS	******
DEC 18,88	DEC 17,88	30.0	!IS	******		******	UG	5.83	******	LG	0.0116	!IS	******	!IS	******
DEC 19,88	DEC 18,88	21.0	!IS	******		******		4.71	******		0.0367	!IS	******	!IS	******
DEC 20,88	DEC 19,88	64.0		55.0		******		3.97	******		0.1200		4.50		1.16
DEC 21,88	DEC 20,88	438.0	D	30.5		4.31		4.31	******		0.0676		3.50		0.49
DEC 23,88	DEC 22,88	277.0		12.0		4.55		4.71	******		0.0372		1.10		0.31
DEC 24,88	DEC 23,88	181.0		13.0		4.54		4.53	******		0.0497		0.70		0.40
DEC 25,88	DEC 24,88	243.0		17.0		4.65		4.62	******		0.0422	<T	0.10		0.43
DEC 26,88	DEC 25,88	44.0		42.5		******		4.87	******		0.0333		1.45		0.15
DEC 27,88	DEC 26,88	139.0	LG	2.0	UG	5.26		5.35	******		0.0203	LG	0.20	LG	0.06
DEC 28,88	DEC 27,88	963.0		12.0		4.53		4.50	******		0.0503		1.13		0.26
DEC 29,88	DEC 28,88	8.0		4.0		******		4.98	******		0.0278		0.35		0.12
DEC 30,88	DEC 29,88	9.0		4.0		******		4.99	******		0.0283	<T	0.20		0.13
DEC 31,88	DEC 30,88	87.0		40.0		******		4.09	******		0.1030		2.25		1.35

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
DEC 4,88	DEC 3,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******
DEC 9,88	DEC 8,88	<T 0.08	0.06	<T 0.015	<W 0.005	0.025	0.030	0.0123
DEC 13,88	DEC 12,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	!IR ******	0.0257
DEC 14,88	DEC 13,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	!IR ******	0.0977
DEC 15,88	DEC 14,88	0.32	0.43	0.030	0.035	0.060	0.496	0.0741
DEC 17,88	DEC 16,88	0.30	!IS ******	0.035	0.050	0.560	<T 0.020	UG 0.0010
DEC 18,88	DEC 17,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	<T 0.016	UG 0.0015
DEC 19,88	DEC 18,88	0.14	!IS ******	<T 0.010	0.050	0.585	<T 0.016	0.0195
DEC 20,88	DEC 19,88	0.88	0.75	0.085	0.075	0.340	0.346	0.1072
DEC 21,88	DEC 20,88	0.58	0.36	0.055	0.080	0.205	D 0.376	0.0490
DEC 23,88	DEC 22,88	0.26	0.46	0.025	0.040	0.315	0.090	0.0195
DEC 24,88	DEC 23,88	<T 0.06	0.17	<W 0.005	<T 0.015	0.095	0.086	0.0295
DEC 25,88	DEC 24,88	0.24	UG 1.60	<T 0.020	0.030	UG 1.010	0.176	0.0240
DEC 26,88	DEC 25,88	!IS ******	!IR ******	!IS ******	!IS ******	!IS ******	0.090	0.0135
DEC 27,88	DEC 26,88	<T 0.02	0.15	<W 0.005	<W 0.005	0.075	<T 0.016	0.0045
DEC 28,88	DEC 27,88	<W 0.02	0.10	<W 0.005	<T 0.005	0.025	0.110	0.0316
DEC 29,88	DEC 28,88	!IS ******	<T 0.04	!IS ******	!IS ******	!IS ******	<T 0.016	0.0105
DEC 30,88	DEC 29,88	!IS ******	0.17	!IS ******	!IS ******	!IS ******	<T 0.016	0.0102
DEC 31,88	DEC 30,88	0.26	0.61	0.035	0.030	0.255	0.496	0.0813

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM #07 PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 1,88	DEC 31,87	900	900	1000	1500	2	9.0	2	49604	2	1	50		
JAN 2,88	JAN 1,88	900	900	1100	1500	2	9.8	2	49605	2	1	64		JM
JAN 5,88	JAN 4,88	730	735	930	1200	2	11.2	2	49607	2	1	33		NM
JAN 11,88	JAN 10,88	800	800	940	1100	2	1.2	2	49608	2	1	****	EF	
JAN 13,88	JAN 12,88	800	800	100	300	2	12.2	2	49609	2	1	71		
JAN 19,88	JAN 18,88	800	755	1300	1500	3	1.6	2	49612	2	1	120		N
JAN 20,88	JAN 19,88	755	800	500	800	1	6.0	2	49613	2	1	106		
JAN 21,88	JAN 20,88	800	755	530	755	2	1.0	2	49614	2	1	59		
JAN 23,88	JAN 22,88	800	900	600	900	2	1.4	2	49615	2	1	18		N
JAN 24,88	JAN 23,88	900	730	900	1130	2	2.0	2	49616	2	1	47		N
JAN 25,88	JAN 24,88	730	730	1200	1400	2	4.6	2	49617	2	1	78		
JAN 28,88	JAN 27,88	730	815	400	530	2	2.2	2	49618	2	1	68		
JAN 31,88	JAN 30,88	800	900	1000	1400	1	7.6	2	49619	2	1	90		
FEB 1,88	JAN 31,88	900	900	900	1300	1	12.8	2	49620	2	1	105		
FEB 2,88	FEB 1,88	900	730	400	600	2	3.6	2	49621	2	1	54		N
FEB 4,88	FEB 3,88	800	800	2300	100	2	0.8	2	49622	2	1	122		NHCN
FEB 6,88	FEB 5,88	730	830	1000	1200	2	3.0	2	49623	2	1	61		N
FEB 8,88	FEB 7,88	800	730	2200	2330	2	3.2	2	49624	2	1	39		N
FEB 10,88	FEB 9,88	800	715	400	500	2	1.0	2	49625	2	1	20		N
FEB 13,88	FEB 12,88	815	800	900	1200	2	9.8	2	49627	2	1	62		
FEB 15,88	FEB 14,88	800	815	400	815	3	12.4	2	49628	2	1	93		
FEB 17,88	FEB 16,88	715	800	1300	1500	3	7.6	2	49629	2	1	87		
FEB 29,88	FEB 18,88	800	900	****	****	2	38.2	2	49630	2	1	69		JHZ
MAR 2,88	MAR 1,88	800	800	600	700	2	0.4	2	49631	2	1	74	A	
MAR 9,88	MAR 8,88	715	730	530	730	1	4.6	2	49632	2	1	121		N
MAR 10,88	MAR 9,88	730	740	100	300	3	1.0	2	49633	2	1	145	C	N
MAR 13,88	MAR 12,88	800	805	500	705	2	6.2	2	49634	2	1	90		
MAR 14,88	MAR 13,88	805	705	1500	1630	2	2.8	2	49635	2	1	63		
MAR 19,88	MAR 18,88	730	900	1500	1700	2	1.6	2	49638	2	1	95		
MAR 25,88	MAR 24,88	800	740	400	600	1	1.0	2	49639	2	1	185		N
MAR 28,88	MAR 25,88	740	800	****	****	3	18.2	2	49640	2	1	120		NY3
MAR 29,88	MAR 28,88	800	740	500	600	1	0.6	2	49641	2	1	205		N
MAR 31,88	MAR 30,88	700	740	930	1030	1	0.2	2	49643	2	1	928		N
APR 5,88	APR 2,88	800	1520	****	****	1	17.1	2	49644	2	1	97		Y3
APR 7,88	APR 6,88	900	930	300	930	1	3.1	2	49647	2	1	130		NC
APR 8,88	APR 7,88	930	1100	1600	2400	1	7.0	2	49648	2	1	105		
APR 14,88	APR 12,88	800	1000	****	****	1	12.8	1	49649	2	1	103		Y2
APR 15,88	APR 14,88	1000	1100	1000	1300	1	3.0	1	49650	2	1	89		
APR 20,88	APR 15,88	1100	1400	****	****	3	9.0	1	49651	2	1	68		JHMZ
APR 22,88	APR 20,88	1400	1100	****	****	2	6.8	1	49652	2	1	97		JY2

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM #07 PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM		PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 1,88	DEC 31,87	293.0	13.5	UG	5.12	D	5.26	******	D	0.0333	2.25	0.46
JAN 2,88	JAN 1,88	408.0	4.0	B	6.03	UG	6.78	******	D	0.0184	0.50	0.16
JAN 5,88	JAN 4,88	244.0	4.5	B	6.54	UG	6.89	******		0.0167	0.40	0.19
JAN 11,88	JAN 10,88	******	******		******		******	******		******	******	******
JAN 13,88	JAN 12,88	558.0	32.0		4.28		4.26	******		0.0795	2.55	0.86
JAN 19,88	JAN 18,88	124.0	36.0		4.09		4.04	******		0.1100	2.15	0.90
JAN 20,88	JAN 19,88	408.0	17.5		4.42		4.43	******		0.0542	1.65	0.30
JAN 21,88	JAN 20,88	38.0	!IS ******		******	!IR	******	******	!IR	******	!IS ******	!IS ******
JAN 23,88	JAN 22,88	17.0	!IS ******		******	!IR	******	******	!IR	******	!IS ******	!IS ******
JAN 24,88	JAN 23,88	61.0	D 18.0		******	B	6.68	******	D	0.0219	1.70	1.11
JAN 25,88	JAN 24,88	232.0	29.0		4.29		4.30	******		0.0786	2.20	0.80
JAN 28,88	JAN 27,88	96.0	13.0	UG	5.07	D	5.46	******	D	0.0295	0.35	1.04
JAN 31,88	JAN 30,88	440.0	73.0		3.91		3.96	******		0.1500	7.65	1.93
FEB 1,88	JAN 31,88	864.0	21.5		4.32		4.41	******		0.0615	2.25	0.33
FEB 2,88	FEB 1,88	125.0	11.0	UG	6.74	B	7.33	******		0.0171	0.65	0.21
FEB 4,88	FEB 3,88	63.0	8.5		******	UG	5.74	******		0.0261	0.60	0.82
FEB 6,88	FEB 5,88	118.0	5.5	UG	6.87	UG	7.19	******		0.0207	0.25	0.13
FEB 8,88	FEB 7,88	81.0	15.5		******		4.77	******		0.0439	0.70	0.98
FEB 10,88	FEB 9,88	13.0	!IS ******		******	B	7.00	******		0.0205	!IS ******	!IS ******
FEB 13,88	FEB 12,88	391.0	25.5		4.31		4.28	******		0.0761	1.20	0.94
FEB 15,88	FEB 14,88	743.0	28.0		4.23		4.23	******		0.0848	1.85	0.68
FEB 17,88	FEB 16,88	424.0	14.5		4.62		4.80	******		0.0466	1.90	0.36
FEB 29,88	FEB 18,88	1711.0	14.0	UG	5.70	UG	6.47	******		0.0223	1.75	0.82
MAR 2,88	MAR 1,88	19.0	35.5		******	B	7.47	******		0.0154	1.85	0.98
MAR 9,88	MAR 8,88	357.0	93.0		3.87		3.85	******		0.2020	8.20	1.84
MAR 10,88	MAR 9,88	93.0	41.0	B	7.06	UG	7.22	******		0.0157	D 4.85	1.35
MAR 13,88	MAR 12,88	359.0	27.5		4.51	D	4.46	******		0.0629	2.80	0.68
MAR 14,88	MAR 13,88	114.0	18.0		4.80		4.85	******		0.0353	1.45	0.58
MAR 19,88	MAR 18,88	98.0	20.0	B	6.98	B	6.81	******		0.0204	1.70	0.95
MAR 25,88	MAR 24,88	119.0	57.5		3.94		3.95	******		0.1360	5.85	0.97
MAR 28,88	MAR 25,88	1407.0	23.0		4.44		4.50	******		0.0544	2.35	0.53
MAR 29,88	MAR 28,88	79.0	17.0		******		4.70	******		0.0404	1.95	0.40
MAR 31,88	MAR 30,88	119.0	39.0		4.14		4.22	******		0.0905	5.25	0.69
APR 5,88	APR 2,88	1074.0	30.5		4.16		4.21	******		0.0818	2.55	0.40
APR 7,88	APR 6,88	259.0	> 100.0	LG	3.60	LG	3.55	******	UG	0.3560	UG 11.30	2.50
APR 8,88	APR 7,88	473.0	62.5		3.90		3.90	******		0.1580	5.25	0.94
APR 14,88	APR 12,88	851.0	37.0		4.28		4.40	******		0.0713	3.55	1.06
APR 15,88	APR 14,88	172.0	45.0		4.04		4.13	******		0.1110	4.75	0.82
APR 20,88	APR 15,88	398.0	12.5	UG	6.53	UG	7.51	******		0.0168	1.70	0.40
APR 22,88	APR 20,88	424.0	13.0	UG	5.24	UG	6.11	******		0.0208	1.95	0.64

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM #07 PAGE : 3

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 1,88	DEC 31,87	0.16	0.12	0.030	<T 0.010	0.030	D 0.950	D 0.0055
JAN 2,88	JAN 1,88	<W 0.02	0.09	<T 0.005	<T 0.010	0.025	D 0.525	UG 0.0002
JAN 5,88	JAN 4,88	<T 0.06	0.11	<T 0.010	<T 0.010	0.030	D 0.560	UG 0.0001
JAN 11,88	JAN 10,88	******	******	******	******	******	******	******
JAN 13,88	JAN 12,88	0.16	0.13	0.030	<T 0.020	0.035	0.785	0.0550
JAN 19,88	JAN 18,88	<T 0.04	0.12	<T 0.005	0.025	0.035	0.245	0.0912
JAN 20,88	JAN 19,88	0.20	0.07	<T 0.010	<T 0.020	0.040	0.085	0.0372
JAN 21,88	JAN 20,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	!IR ******	!IR ******
JAN 23,88	JAN 22,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	D 1.290	!IR ******
JAN 24,88	JAN 23,88	!IS ******	0.37	!IS ******	!IS ******	!IS ******	D 1.780	B 0.0002
JAN 25,88	JAN 24,88	<T 0.06	0.26	<T 0.010	0.040	0.040	D 0.670	0.0501
JAN 28,88	JAN 27,88	0.32	0.14	!IS ******	<T 0.015	0.070	0.850	D 0.0035
JAN 31,88	JAN 30,88	0.94	1.09	0.130	0.135	UG 0.670	1.660	0.1096
FEB 1,88	JAN 31,88	<T 0.04	0.29	<T 0.025	0.050	0.155	0.320	0.0389
FEB 2,88	FEB 1,88	<T 0.02	0.22	<W 0.005	0.040	0.155	D 1.390	B 0.0000
FEB 4,88	FEB 3,88	0.10	0.56	<T 0.010	<T 0.025	0.045	D 0.830	UG 0.0018
FEB 6,88	FEB 5,88	<T 0.10	0.11	<T 0.010	0.055	0.080	D 0.680	UG 0.0001
FEB 8,88	FEB 7,88	0.18	0.24	0.030	0.055	0.115	D 0.740	0.0170
FEB 10,88	FEB 9,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	D 0.660	B 0.0001
FEB 13,88	FEB 12,88	0.14	0.13	<T 0.015	0.030	<T 0.025	0.540	0.0525
FEB 15,88	FEB 14,88	<T 0.06	0.18	<T 0.010	0.085	0.105	0.330	0.0589
FEB 17,88	FEB 16,88	<T 0.04	<T 0.05	<W 0.005	<T 0.010	<T 0.025	0.630	0.0158
FEB 29,88	FEB 18,88	0.34	0.17	0.060	<T 0.020	0.100	1.060	UG 0.0003
MAR 2,88	MAR 1,88	!IS ******	0.38	!IS ******	!IS ******	!IS ******	3.700	B 0.0000
MAR 9,88	MAR 8,88	1.14	0.49	0.145	0.090	0.225	1.200	0.1413
MAR 10,88	MAR 9,88	0.36	0.35	0.045	0.125	0.125	D 3.600	UG 0.0001
MAR 13,88	MAR 12,88	0.54	0.17	0.050	0.035	0.075	0.730	D 0.0347
MAR 14,88	MAR 13,88	0.10	0.25	<T 0.020	D 0.045	0.110	0.700	0.0141
MAR 19,88	MAR 18,88	<T 0.04	0.23	<T 0.015	<T 0.010	0.055	D 1.860	B 0.0002
MAR 25,88	MAR 24,88	0.62	0.41	0.095	0.050	0.195	0.590	0.1122
MAR 28,88	MAR 25,88	0.30	0.19	0.040	0.055	0.110	0.500	0.0316
MAR 29,88	MAR 28,88	0.40	0.26	0.035	D 0.170	0.125	0.290	0.0200
MAR 31,88	MAR 30,88	1.00	0.35	0.110	0.070	0.200	0.530	0.0603
APR 5,88	APR 2,88	<T 0.08	0.16	<T 0.010	<T 0.025	0.065	0.230	0.0617
APR 7,88	APR 6,88	D 1.18	D 0.47	0.130	0.170	D 0.210	0.960	LG 0.2818
APR 8,88	APR 7,88	0.16	0.16	<T 0.020	0.065	0.060	0.600	0.1259
APR 14,88	APR 12,88	0.82	0.19	0.060	0.050	0.050	0.740	0.0398
APR 15,88	APR 14,88	0.24	0.16	0.055	0.080	0.035	0.840	0.0741
APR 20,88	APR 15,88	0.84	0.23	0.165	0.160	0.115	0.390	UG 0.0000
APR 22,88	APR 20,88	0.60	0.11	0.105	0.045	0.040	0.750	UG 0.0008

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM #07

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
APR 26,88	APR 22,88	1100	1100	****	****	3	23.8	1	49653	2	1	92		
APR 30,88	APR 26,88	1100	830	1600	1800	1	8.8	1	49654	2	1	168		Y4
MAY 9,88	MAY 8,88	830	730	400	500	1	0.6	1	49655	2	1	31		NHCNY4
MAY 10,88	MAY 9,88	730	730	2130	2230	1	10.0	1	49656	2	1	91	C	N
MAY 11,88	MAY 10,88	730	730	400	600	1	1.0	1	49657	2	1	62		
MAY 13,88	MAY 12,88	730	800	530	800	1	7.0	1	49658	2	1	96	CAB	
MAY 14,88	MAY 13,88	800	800	800	930	1	1.6	1	49659	2	1	74		
MAY 16,88	MAY 15,88	800	730	1100	1130	1	30.4	1	49660	2	1	101		
MAY 17,88	MAY 16,88	730	730	1600	1700	1	5.8	1	49663	2	1	103		
MAY 20,88	MAY 19,88	730	730	400	500	1	2.0	1	49664	2	1	82		
MAY 22,88	MAY 20,88	730	900	400	500	1	15.8	1	49665	2	1	100		HNY2
MAY 27,88	MAY 26,88	730	745	1600	1630	1	****	1	49666	2	1	****		X
JUN 2,88	JUN 1,88	730	730	1000	1030	1	0.8	1	49668	2	1	74		
JUN 7,88	JUN 6,88	715	730	1530	1600	1	0.2	1	49669	2	1	109		
JUN 22,88	JUN 21,88	800	1200	500	1200	1	14.2	1	49671	2	1	101	C	
JUN 26,88	JUN 25,88	800	900	400	600	1	12.0	1	49674	2	1	69	C	
JUN 29,88	JUN 28,88	730	730	1030	1130	1	7.2	1	49675	2	1	104		
JUL 1,88	JUN 30,88	700	830	1030	1130	1	1.0	1	49676	2	1	90		
JUL 11,88	JUL 10,88	900	815	400	500	1	9.2	1	49677	2	1	98		
JUL 12,88	JUL 11,88	815	800	300	315	1	0.6	1	49678	2	1	38		
JUL 14,88	JUL 13,88	730	745	300	430	1	16.6	1	49679	2	1	50		
JUL 16,88	JUL 15,88	745	800	400	430	1	1.6	1	49682	2	1	66		
JUL 19,88	JUL 18,88	800	800	1400	1430	1	0.4	1	49683	2	1	31		N
JUL 21,88	JUL 20,88	730	745	1800	1830	1	****	1	49684	2	1	****		X
JUL 23,88	JUL 22,88	710	800	1400	1430	1	0.8	1	49685	2	1	58		
JUL 25,88	JUL 24,88	800	730	900	1100	1	6.6	1	49686	2	1	97		
JUL 26,88	JUL 25,88	730	800	400	500	1	0.6	1	49687	2	1	38		XN
JUL 27,88	JUL 26,88	800	730	1730	1830	1	****	1	49688	2	1	****		X
JUL 28,88	JUL 27,88	730	730	1200	1230	1	0.3	1	49689	2	1	26		N
AUG 5,88	AUG 4,88	730	730	1500	1530	1	1.2	1	49690	2	1	32		N
AUG 6,88	AUG 5,88	730	800	1400	1440	1	14.0	1	49691	2	1	97		
AUG 9,88	AUG 8,88	745	800	530	800	1	10.2	1	49692	2	1	99		
AUG 10,88	AUG 9,88	800	700	2200	2300	1	16.8	1	49693	2	1	100		
AUG 12,88	AUG 11,88	700	730	800	1000	1	4.8	1	49697	2	1	88		
AUG 15,88	AUG 14,88	800	720	730	930	1	7.8	1	49696	2	1	109		
AUG 17,88	AUG 16,88	725	745	550	745	1	3.2	1	49698	2	1	****	GE	
AUG 18,88	AUG 17,88	745	730	745	900	1	5.6	1	49699	2	1	99		HCM
AUG 21,88	AUG 20,88	800	900	1350	1430	1	0.6	1	49700	2	1	20		N
AUG 24,88	AUG 23,88	745	730	2300	2430	1	2.2	1	49701	2	1	73		
AUG 25,88	AUG 24,88	730	730	1800	2000	1	15.8	1	49702	2	1	100		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM #07 PAGE : 5

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
APR 26,88	APR 22,88	1415.0	30.5	4.24	UCR 4.30	******	0.0870	2.85	0.70
APR 30,88	APR 26,88	948.0	32.0	4.16	4.40	******	0.0702	2.45	0.65
MAY 9,88	MAY 8,88	12.0	> 100.0	******	UCR 3.64	******	UCR 0.3200	> 10.00	> 2.00
MAY 10,88	MAY 9,88	584.0	55.0	3.98	4.11	******	0.1220	6.90	0.89
MAY 11,88	MAY 10,88	40.0	44.5	******	UCR 4.32	******	UCR 0.0864	5.15	1.15
MAY 13,88	MAY 12,88	434.0	24.0	D 4.55	4.69	******	0.0479	D 3.25	0.70
MAY 14,88	MAY 13,88	76.0	11.5	******	5.18	******	0.0296	1.75	0.24
MAY 16,88	MAY 15,88	1971.0	26.5	4.30	4.40	******	0.0668	3.10	0.49
MAY 17,88	MAY 16,88	384.0	22.5	4.31	4.42	******	0.0633	2.75	0.20
MAY 20,88	MAY 19,88	106.0	7.0	4.80	4.91	******	0.0296	0.65	0.21
MAY 22,88	MAY 20,88	1016.0	LG 3.0	5.11	5.30	******	0.0198	<T 0.15	0.08
MAY 27,88	MAY 26,88	1.0	******	******	******	******	******	******	******
JUN 2,88	JUN 1,88	38.0	41.0	******	4.12	******	0.1040	5.00	0.21
JUN 7,88	JUN 6,88	14.0	7.0	******	UG 5.65	******	0.0170	0.85	0.10
JUN 22,88	JUN 21,88	927.0	16.0	******	4.78	******	0.0405	2.15	0.44
JUN 26,88	JUN 25,88	536.0	40.0	4.18	4.23	******	0.0950	4.45	0.66
JUN 29,88	JUN 28,88	481.0	9.0	4.78	4.78	******	D 0.0750	0.88	<T 0.04
JUL 1,88	JUN 30,88	58.0	17.5	******	4.54	******	0.0500	1.85	0.12
JUL 11,88	JUL 10,88	580.0	19.5	4.32	4.54	******	0.0485	1.90	0.27
JUL 12,88	JUL 11,88	15.0	9.0	******	UG 6.06	******	D 0.0178	0.60	0.16
JUL 14,88	JUL 13,88	533.0	33.5	4.20	4.36	******	0.0703	3.75	0.50
JUL 16,88	JUL 15,88	68.0	34.5	4.19	4.31	******	0.0739	3.30	0.73
JUL 19,88	JUL 18,88	8.0	13.0	******	5.32	******	0.0245	1.10	0.50
JUL 21,88	JUL 20,88	5.0	******	******	******	******	******	******	******
JUL 23,88	JUL 22,88	30.0	16.0	******	4.69	******	0.0438	1.20	0.41
JUL 25,88	JUL 24,88	413.0	11.0	4.37	4.68	******	0.0472	1.00	0.23
JUL 26,88	JUL 25,88	15.0	******	******	******	******	******	******	******
JUL 27,88	JUL 26,88	4.0	******	******	******	******	******	******	******
JUL 28,88	JUL 27,88	5.0	LG 3.0	******	UG 6.03	******	0.0192	LG 0.25	LG 0.06
AUG 5,88	AUG 4,88	25.0	39.0	******	4.29	******	0.0734	3.75	1.36
AUG 6,88	AUG 5,88	875.0	85.5	3.81	3.80	******	0.1970	9.60	0.90
AUG 9,88	AUG 8,88	650.0	36.0	4.08	4.19	******	0.0919	3.30	0.60
AUG 10,88	AUG 9,88	1077.0	23.5	4.23	4.39	******	0.0653	2.40	0.32
AUG 12,88	AUG 11,88	272.0	19.5	4.28	4.36	******	0.0700	2.15	0.28
AUG 15,88	AUG 14,88	546.0	18.0	D 4.39	4.54	******	0.0546	2.45	0.39
AUG 17,88	AUG 16,88	******	******	******	******	******	******	******	******
AUG 18,88	AUG 17,88	358.0	D 5.0	D 4.74	4.79	******	0.0366	0.95	0.21
AUG 21,88	AUG 20,88	8.0	5.0	******	D 4.95	******	0.0308	0.85	LG 0.05
AUG 24,88	AUG 23,88	103.0	55.5	3.89	3.89	******	0.1660	4.80	1.01
AUG 25,88	AUG 24,88	1016.0	10.0	4.55	4.65	******	0.0501	1.10	0.17

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM #07 PAGE : 6

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
APR 26,88	APR 22,88	0.46	0.17	0.060	0.085	0.060	0.530	UCR 0.0501
APR 30,88	APR 26,88	0.12	0.12	<T 0.015	<T 0.015	<T 0.020	0.240	0.0398
MAY 9,88	MAY 8,88	2.06	D 0.63	0.275	UG 0.310	0.150	1.100	UCR 0.2291
MAY 10,88	MAY 9,88	0.84	0.38	0.105	0.150	0.110	0.900	0.0776
MAY 11,88	MAY 10,88	0.34	D 0.66	0.045	0.085	B 0.330	1.600	UCR 0.0479
MAY 13,88	MAY 12,88	D 0.72	D 0.15	D 0.125	0.100	D 0.055	0.730	0.0204
MAY 14,88	MAY 13,88	0.30	0.17	0.045	D 0.140	D 0.135	0.370	0.0066
MAY 16,88	MAY 15,88	0.40	0.08	0.045	<T 0.020	<T 0.010	0.570	0.0398
MAY 17,88	MAY 16,88	0.22	<T 0.04	0.030	0.045	0.025	0.210	0.0380
MAY 20,88	MAY 19,88	<T 0.08	<T 0.03	<T 0.015	0.050	<T 0.025	0.082	0.0123
MAY 22,88	MAY 20,88	<W 0.02	<T 0.03	<W 0.005	<T 0.010	<W 0.005	<T 0.006	0.0050
MAY 27,88	MAY 26,88	******	******	******	******	******	******	******
JUN 2,88	JUN 1,88	!IS ******	0.14	!IS ******	!IS ******	!IS ******	0.216	0.0759
JUN 7,88	JUN 6,88	!IS ******	0.11	!IS ******	!IS ******	!IS ******	<T 0.008	UG 0.0022
JUN 22,88	JUN 21,88	0.42	0.08	0.070	0.115	0.035	0.470	0.0166
JUN 26,88	JUN 25,88	0.50	0.16	0.075	0.060	0.030	0.588	0.0589
JUN 29,88	JUN 28,88	<T 0.02	<T 0.03	<W 0.005	<T 0.015	<T 0.010	<T 0.018	0.0166
JUL 1,88	JUN 30,88	0.12	0.10	<T 0.015	0.080	0.040	0.114	0.0288
JUL 11,88	JUL 10,88	0.16	0.11	0.035	0.120	0.040	0.238	0.0288
JUL 12,88	JUL 11,88	!IS ******	0.14	!IS ******	!IS ******	!IS ******	!IS ******	UG 0.0009
JUL 14,88	JUL 13,88	0.26	0.09	0.065	<T 0.020	<T 0.010	0.608	0.0437
JUL 16,88	JUL 15,88	D 0.60	0.14	0.110	0.110	0.070	0.392	0.0490
JUL 19,88	JUL 18,88	!IS ******	0.13	!IS ******	!IS ******	!IS ******	0.560	0.0048
JUL 21,88	JUL 20,88	******	******	******	******	******	******	******
JUL 23,88	JUL 22,88	!IS ******	0.16	!IS ******	!IS ******	!IS ******	0.304	0.0204
JUL 25,88	JUL 24,88	<T 0.04	0.07	<T 0.010	<T 0.025	<T 0.025	0.200	0.0209
JUL 26,88	JUL 25,88	******	******	******	******	******	******	******
JUL 27,88	JUL 26,88	******	******	******	******	******	******	******
JUL 28,88	JUL 27,88	!IS ******	0.17	!IS ******	!IS ******	!IS ******	0.110	UG 0.0009
AUG 5,88	AUG 4,88	!IS ******	0.28	!IS ******	!IS ******	!IS ******	0.304	0.0513
AUG 6,88	AUG 5,88	0.56	0.18	0.085	0.035	<T 0.025	0.772	0.1585
AUG 9,88	AUG 8,88	0.34	0.12	0.070	0.035	0.025	0.190	0.0646
AUG 10,88	AUG 9,88	<T 0.06	0.05	<W 0.005	<T 0.015	<T 0.015	0.316	0.0407
AUG 12,88	AUG 11,88	<W 0.02	0.05	<T 0.010	<T 0.015	<T 0.010	0.146	0.0437
AUG 15,88	AUG 14,88	0.18	0.08	0.040	0.035	0.030	0.420	0.0288
AUG 17,88	AUG 16,88	******	******	******	******	******	******	******
AUG 18,88	AUG 17,88	0.16	<T 0.04	<T 0.015	<T 0.020	<T 0.020	D 0.236	0.0162
AUG 21,88	AUG 20,88	!IS ******	0.15	!IS ******	!IS ******	!IS ******	0.046	D 0.0112
AUG 24,88	AUG 23,88	0.26	0.09	0.030	0.040	D 0.035	0.310	0.1288
AUG 25,88	AUG 24,88	<T 0.04	<T 0.01	<T 0.005	<T 0.015	0.025	0.160	0.0224

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM #07

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
AUG 26,88	AUG 25,88	730	730	1300	1400	1	15.6	1	49703	2	1	99		HM
AUG 27,88	AUG 26,88	730	745	1000	1100	1	1.6	1	49706	2	1	70		
AUG 29,88	AUG 27,88	745	730	200	300	1	2.0	1	49707	2	1	96		Y2
AUG 30,88	AUG 29,88	730	730	1530	1600	1	2.0	1	49708	2	1	78		
AUG 31,88	AUG 30,88	730	720	1500	1630	1	3.8	1	49709	2	1	93		
SEP 4,88	SEP 3,88	800	810	2200	100	1	12.8	1	49710	2	1	101		
SEP 5,88	SEP 4,88	810	800	1530	1730	1	20.1	1	49711	2	1	91		
SEP 6,88	SEP 5,88	800	800	1500	1600	1	0.6	1	49712	2	1	54		
SEP 7,88	SEP 6,88	800	730	1800	1900	1	2.2	1	49713	2	1	84		JHM
SEP 13,88	SEP 12,88	730	730	2200	2400	1	4.4	1	49714	2	1	90		
SEP 15,88	SEP 14,88	730	730	730	830	1	1.0	1	49717	2	1	81	C	
SEP 17,88	SEP 16,88	740	800	500	600	1	5.0	1	49716	2	1	96		H
SEP 21,88	SEP 20,88	730	800	730	930	1	23.6	1	49715	2	1	107		N
SEP 22,88	SEP 21,88	800	730	800	1000	1	0.6	1	49718	2	1	38		H
SEP 23,88	SEP 22,88	730	800	530	730	1	6.6	1	49719	2	1	114		
SEP 27,88	SEP 26,88	730	745	1500	1600	1	1.2	1	49720	2	1	62	C	
SEP 28,88	SEP 27,88	745	730	1230	1330	1	3.2	1	49721	2	1	93		JHM
OCT 3,88	OCT 1,88	730	740	1900	2100	1	30.5	1	49722	2	1	143		NY2
OCT 5,88	OCT 4,88	740	745	530	745	1	26.6	1	49723	2	1	99		N
OCT 6,88	OCT 5,88	745	745	745	945	1	2.8	1	49724	2	1	53		HCM
OCT 8,88	OCT 7,88	745	800	1515	1715	1	8.2	1	49725	2	1	84		HC
OCT 9,88	OCT 8,88	800	800	900	1000	1	0.4	1	49726	2	1	****	E	N
OCT 11,88	OCT 10,88	800	745	1130	1330	1	9.6	1	49727	2	1	91		
OCT 12,88	OCT 11,88	800	745	1300	1500	3	1.8	1	49728	2	1	79		C
OCT 17,88	OCT 16,88	800	720	500	600	1	2.4	1	49730	2	1	105		H
OCT 18,88	OCT 17,88	720	720	2130	100	1	25.6	1	49731	2	1	91		NM
OCT 20,88	OCT 19,88	710	710	300	400	1	0.4	1	49732	2	1	****	E	N
OCT 22,88	OCT 21,88	715	900	730	900	1	5.2	1	49734	2	1	99		
OCT 23,88	OCT 22,88	900	900	1400	1600	1	0.2	1	49735	2	1	****	E	N
OCT 24,88	OCT 23,88	900	730	500	730	1	5.8	1	49736	2	1	64		
OCT 25,88	OCT 24,88	730	730	400	600	1	10.2	1	49737	2	1	95		
OCT 26,88	OCT 25,88	730	730	****	****	1	****	2	49742	2	1	****	Q	J
OCT 28,88	OCT 26,88	730	900	530	645	1	19.6	2	49738	2	1	121	Q	NY2
OCT 29,88	OCT 28,88	900	900	100	300	1	6.2	2	49739	2	1	77		
NOV 2,88	NOV 1,88	700	700	1500	1600	1	0.2	2	49741	2	1	202		N
NOV 4,88	NOV 3,88	730	720	400	500	1	2.2	2	49743	2	1	136		NJCM
NOV 5,88	NOV 4,88	720	900	2300	2300	1	6.0	2	49744	2	1	115		
NOV 7,88	NOV 5,88	700	710	900	1100	3	15.8	2	49745	2	1	106		NCMZ
NOV 9,88	NOV 8,88	740	730	1100	1300	1	1.2	2	49747	2	1	149		N
NOV 11,88	NOV 9,88	730	730	600	730	3	15.0	2	49748	2	1	U 133	P	Z

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM #07

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM		PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
AUG 26,88	AUG 25,88	994.0	3.5	UG	5.13		5.29	******		0.0258		0.45		0.07
AUG 27,88	AUG 26,88	72.0	5.5		******		4.93	******		0.0312		0.85	<T	0.04
AUG 29,88	AUG 27,88	124.0	69.0		3.83		3.89	******		0.1920		6.25		1.45
AUG 30,88	AUG 29,88	100.0	9.0		4.64		4.82	******		0.0388		0.95		0.23
AUG 31,88	AUG 30,88	228.0	7.0		4.66		4.85	******		0.0345		0.70		0.09
SEP 4,88	SEP 3,88	829.0	32.0		4.05		4.16	******		0.1050		3.90		0.20
SEP 5,88	SEP 4,88	1174.0	18.5		4.27		4.34	******		0.0695		2.20	LG	0.06
SEP 6,88	SEP 5,88	21.0	2.5	LG	******	!IS	******	******	!IS	******		0.35		0.07
SEP 7,88	SEP 6,88	119.0	3.0	LG	4.86		5.45	******		0.0238	<T	0.10	<T	0.03
SEP 13,88	SEP 12,88	256.0	41.0		4.04		4.13	******		0.1110		5.15		0.78
SEP 15,88	SEP 14,88	52.0	22.0		******		4.42	******		0.0656		3.45		0.17
SEP 17,88	SEP 16,88	310.0	40.0		4.04		4.18	******		0.1080		3.90		0.52
SEP 21,88	SEP 20,88	1633.0	24.0		4.30		4.29	******	D	0.0822		2.50		0.34
SEP 22,88	SEP 21,88	15.0	3.5		******		5.31	******		0.0246		0.60	<T	0.03
SEP 23,88	SEP 22,88	484.0	54.0		3.89		3.93	******		0.1590		4.65		1.04
SEP 27,88	SEP 26,88	48.0	15.0		******	UG	6.04	******		0.0266		2.30		0.75
SEP 28,88	SEP 27,88	191.0	24.5	UG	5.48	UG	7.51	******		0.0216		5.60		0.96
OCT 3,88	OCT 1,88	2804.0	11.0		4.59		4.71	******		0.0439		1.60		0.22
OCT 5,88	OCT 4,88	1701.0	7.5		4.73	D	4.87	******		0.0349		0.65		0.18
OCT 6,88	OCT 5,88	96.0	2.0	LG	5.12	UG	5.30	******		0.0269	LG	0.30		0.11
OCT 8,88	OCT 7,88	446.0	4.0		5.02		5.12	******		0.0301		0.80		0.11
OCT 9,88	OCT 8,88	******	******		******		******	******		******		******		******
OCT 11,88	OCT 10,88	565.0	15.0		4.51		4.56	******		0.0504		2.10		0.45
OCT 12,88	OCT 11,88	92.0	9.0		******		4.51	******		0.0540		1.45	<T	0.04
OCT 17,88	OCT 16,88	163.0	32.0		4.42		4.29	******		0.0761		3.80		0.90
OCT 18,88	OCT 17,88	1501.0	28.5		4.31	D	4.12	******	D	0.1010		2.35		0.42
OCT 20,88	OCT 19,88	******	******		******		******	******		******		******		******
OCT 22,88	OCT 21,88	330.0	41.0		4.17		4.14	******		0.0987		2.15		1.02
OCT 23,88	OCT 22,88	******	******		******		******	******		******		******		******
OCT 24,88	OCT 23,88	238.0	37.0		4.18		4.13	******		0.1040		1.65		0.87
OCT 25,88	OCT 24,88	622.0	10.0		4.80		4.79	******		0.0388		0.85		0.27
OCT 26,88	OCT 25,88	230.0	6.0	UG	5.21		4.88	******		0.0350		0.45		0.09
OCT 28,88	OCT 26,88	1521.0	26.5		4.35		4.28	******		0.0730		1.90		0.49
OCT 29,88	OCT 28,88	307.0	10.0		4.83		4.85	******		0.0364		1.65		0.07
NOV 2,88	NOV 1,88	26.0	63.5		******		4.06	******		0.1140		3.60	!IS	******
NOV 4,88	NOV 3,88	193.0	32.5		4.23		3.99	******	D	0.1340		3.20		0.49
NOV 5,88	NOV 4,88	443.0	33.0		4.16		4.07	******		0.1130		3.10		0.56
NOV 7,88	NOV 5,88	1080.0	6.0		4.85		4.67	******		0.0418		0.70		0.13
NOV 9,88	NOV 8,88	115.0	30.0		4.25		4.12	******		0.1050		2.35		0.80
NOV 11,88	NOV 9,88	1288.0	31.0		4.20		4.11	******		0.1040		3.15		0.52

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM #07 PAGE : 9

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
AUG 26,88	AUG 25,88	<T 0.06	<W 0.01	<T 0.010	<T 0.010	<T 0.015	0.120	0.0051
AUG 27,88	AUG 26,88	<T 0.06	<T 0.05	<T 0.005	0.035	0.035	0.056	0.0117
AUG 29,88	AUG 27,88	0.52	0.33	0.100	0.125	0.065	0.950	0.1288
AUG 30,88	AUG 29,88	0.14	0.06	<T 0.025	0.035	0.025	0.210	0.0151
AUG 31,88	AUG 30,88	<T 0.04	<T 0.05	<W 0.005	<T 0.015	<T 0.015	0.066	0.0141
SEP 4,88	SEP 3,88	<T 0.06	<T 0.03	<T 0.005	<T 0.015	<T 0.010	0.260	0.0692
SEP 5,88	SEP 4,88	<W 0.02	<W 0.01	<W 0.005	<T 0.015	<T 0.005	0.090	0.0457
SEP 6,88	SEP 5,88	<T 0.08	0.13	<T 0.015	0.050	0.105	0.096	!IS ******
SEP 7,88	SEP 6,88	<T 0.10	<T 0.04	<T 0.010	<T 0.015	<T 0.025	0.076	0.0035
SEP 13,88	SEP 12,88	0.26	0.10	0.045	0.040	0.050	0.856	0.0741
SEP 15,88	SEP 14,88	0.22	<W 0.01	D 0.045	D 0.235	D 0.055	0.296	0.0380
SEP 17,88	SEP 16,88	0.14	0.17	<T 0.020	<T 0.025	0.025	0.186	0.0661
SEP 21,88	SEP 20,88	<T 0.08	0.38	<T 0.015	0.025	<T 0.020	0.266	0.0513
SEP 22,88	SEP 21,88	<T 0.08	<T 0.05	<T 0.005	0.055	0.035	0.110	0.0049
SEP 23,88	SEP 22,88	0.16	0.22	<T 0.020	0.030	0.045	0.540	0.1175
SEP 27,88	SEP 26,88	0.70	0.26	0.080	0.195	0.135	0.806	UG 0.0009
SEP 28,88	SEP 27,88	2.10	0.18	0.250	0.115	0.050	1.170	UG 0.0000
OCT 3,88	OCT 1,88	0.16	0.08	0.025	<T 0.015	0.050	0.280	0.0195
OCT 5,88	OCT 4,88	<W 0.02	<T 0.04	<T 0.005	<T 0.015	<T 0.025	0.116	D 0.0135
OCT 6,88	OCT 5,88	<T 0.04	<W 0.01	<W 0.005	0.070	0.035	0.120	0.0050
OCT 8,88	OCT 7,88	<T 0.04	<W 0.01	<W 0.005	0.035	<T 0.025	0.256	0.0076
OCT 9,88	OCT 8,88	******	******	******	******	******	******	******
OCT 11,88	OCT 10,88	0.10	<W 0.01	<W 0.005	0.035	<T 0.015	0.590	0.0275
OCT 12,88	OCT 11,88	<T 0.04	<W 0.01	<W 0.005	0.040	0.025	0.056	0.0309
OCT 17,88	OCT 16,88	0.24	0.12	0.030	0.075	0.050	1.320	0.0513
OCT 18,88	OCT 17,88	<T 0.06	0.06	<W 0.005	<T 0.020	<T 0.010	0.310	D 0.0759
OCT 20,88	OCT 19,88	******	******	******	******	******	******	******
OCT 22,88	OCT 21,88	0.18	0.24	<T 0.020	D 0.115	D 0.050	0.366	0.0724
OCT 23,88	OCT 22,88	******	******	******	******	******	******	******
OCT 24,88	OCT 23,88	<T 0.06	0.10	<W 0.005	0.040	<T 0.025	0.200	0.0741
OCT 25,88	OCT 24,88	0.14	0.07	<T 0.010	0.030	0.035	0.150	0.0162
OCT 26,88	OCT 25,88	<T 0.06	0.10	<W 0.005	0.060	D 0.050	<T 0.006	0.0132
OCT 28,88	OCT 26,88	0.10	0.16	<T 0.010	<T 0.025	<W 0.005	0.186	0.0525
OCT 29,88	OCT 28,88	<T 0.08	0.06	<T 0.010	0.050	<T 0.020	0.276	0.0141
NOV 2,88	NOV 1,88	2.34	0.72	0.255	0.095	0.185	0.606	0.0871
NOV 4,88	NOV 3,88	0.20	0.16	<T 0.020	0.040	0.025	0.170	0.1023
NOV 5,88	NOV 4,88	0.16	0.33	0.030	0.040	0.155	0.216	0.0851
NOV 7,88	NOV 5,88	<T 0.04	0.09	<T 0.010	<T 0.010	0.035	0.086	0.0214
NOV 9,88	NOV 8,88	0.14	0.22	<T 0.010	<T 0.020	<T 0.015	0.460	0.0759
NOV 11,88	NOV 9,88	0.16	0.23	0.025	0.025	0.125	0.330	0.0776

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM #07 PAGE : 10

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 14,88	NOV 13,88	800	730	800	1200	1	17.2	2	49749	2	1	106		N
NOV 15,88	NOV 14,88	730	730	1400	1500	1	0.4	2	49752	2	1	62		NHCM
NOV 17,88	NOV 16,88	730	730	1200	1400	1	1.8	2	49753	2	1	218	C	N
NOV 18,88	NOV 17,88	730	730	100	300	2	4.2	2	49754	2	1	83		
NOV 20,88	NOV 19,88	800	900	1400	1600	3	0.2	2	49755	2	1	101		N
NOV 21,88	NOV 20,88	900	720	1100	1500	3	7.0	2	49756	2	1	113		
NOV 27,88	NOV 26,88	730	900	1730	1900	1	3.0	2	49758	2	1	152		N
NOV 28,88	NOV 27,88	900	800	500	600	3	0.2	2	49759	2	1	257		N
NOV 29,88	NOV 28,88	800	730	1105	1345	2	2.2	2	49760	2	1	97		
NOV 30,88	NOV 29,88	730	800	600	800	2	2.2	2	49761	2	1	88		
DEC 1,88	NOV 30,88	800	800	800	1100	2	4.2	2	49762	2	1	103		
DEC 2,88	DEC 1,88	800	800	500	700	2	0.2	2	49763	2	1	109		
DEC 4,88	DEC 3,88	800	800	400	600	2	****	2	49764	2	1	****		
DEC 9,88	DEC 8,88	800	800	300	600	2	5.0	2	49766	2	1	82		HCM
DEC 13,88	DEC 12,88	800	800	2300	800	2	1.0	2	49767	2	1	37		
DEC 14,88	DEC 13,88	800	800	800	1700	2	0.6	2	49768	2	1	54		
DEC 15,88	DEC 14,88	800	800	1230	1800	2	4.8	2	49769	2	1	64		
DEC 17,88	DEC 16,88	800	800	900	1200	4	1.0	2	49771	2	1	104	QE	
DEC 19,88	DEC 18,88	800	800	800	800	4	0.3	2	49772	2	1	109	Q	
DEC 20,88	DEC 19,88	800	800	700	700	3	1.0	2	49773	2	1	135	Q	N
DEC 21,88	DEC 20,88	800	800	1000	1500	3	6.6	2	49774	2	1	109	Q	
DEC 22,88	DEC 21,88	800	800	800	900	2	0.1	2	49775	2	1	****	EFJ	
DEC 23,88	DEC 22,88	800	800	2200	2400	3	10.4	2	49776	2	1	U 54	FI	C
DEC 25,88	DEC 23,88	800	800	1630	1830	2	5.4	2	49777	2	1	U 99	FJ	CZ
DEC 26,88	DEC 25,88	800	800	****	****	2	****	2	49778	2	1	****	FJ	
DEC 27,88	DEC 26,88	800	800	700	800	2	4.4	2	49779	2	1	U 63	FJ	HCM
DEC 28,88	DEC 27,88	800	800	800	1800	3	19.4	2	49780	2	1	U 105	FJ	C
DEC 29,88	DEC 28,88	800	800	1000	1400	2	0.4	2	49781	2	1	U 42	FJ	
DEC 30,88	DEC 29,88	800	800	1600	1800	2	0.4	2	49782	2	1	U 148	FJ	
DEC 31,88	DEC 30,88	800	800	200	600	2	1.4	2	49783	2	1	U 84	FJ	C

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM #07 PAGE : 11

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 14,88	NOV 13,88	1176.0	22.0	4.35	4.29	******	0.0763	1.85	0.49
NOV 15,88	NOV 14,88	16.0	8.0	******	4.19	******	0.0934	1.00	0.33
NOV 17,88	NOV 16,88	252.0	31.5	4.28 D	4.30	****** D	0.0844	4.10	0.67
NOV 18,88	NOV 17,88	225.0	8.0 B	5.04	5.00	******	0.0308	1.45	0.19
NOV 20,88	NOV 19,88	13.0	!IS ******	******	5.14	******	0.0244	1.10	0.15
NOV 21,88	NOV 20,88	508.0	10.0	4.67	4.68	******	0.0428	1.15	0.21
NOV 27,88	NOV 26,88	293.0	40.0	4.08	4.06	******	0.1230	3.70	0.61
NOV 28,88	NOV 27,88	33.0	!IS ******	******	4.49	******	0.0535	!IS ******	!IS ******
NOV 29,88	NOV 28,88	137.0	17.0	4.49	4.49	******	0.0583	1.95	0.44
NOV 30,88	NOV 29,88	125.0	54.5	4.00	3.92	******	0.1550	1.55	2.38
DEC 1,88	NOV 30,88	278.0	28.5	4.28	4.24	******	0.0826	1.85	0.94
DEC 2,88	DEC 1,88	14.0	!IS ******	******	5.07	******	0.0260	!IS ******	!IS ******
DEC 4,88	DEC 3,88	8.0	!IS ******	******	4.88	******	0.0299	!IS ******	!IS ******
DEC 9,88	DEC 8,88	266.0	6.0	UG 5.23	5.43	******	0.0168	0.35	0.16
DEC 13,88	DEC 12,88	24.0	!IS ******	******	4.44	******	0.0571	0.35	0.53
DEC 14,88	DEC 13,88	21.0	!IS ******	******	4.18	******	0.0930	0.75	0.64
DEC 15,88	DEC 14,88	198.0	37.4	4.19	4.06	******	0.1140	1.95	1.13
DEC 17,88	DEC 16,88	67.0	!IS ******	******	4.05	******	0.1170	0.50	1.64
DEC 19,88	DEC 18,88	21.0	!IS ******	******	4.35	******	0.0642	!IR ******	!IR ******
DEC 20,88	DEC 19,88	87.0	55.2	******	4.03	******	0.1250	5.70	1.04
DEC 21,88	DEC 20,88	463.0	27.9	4.32	4.40	******	0.0804	2.75	0.39
DEC 22,88	DEC 21,88	******	******	******	******	******	******	******	******
DEC 23,88	DEC 22,88	364.0	9.0	4.61	4.65	******	0.0422	0.90	0.34
DEC 25,88	DEC 23,88	345.0	11.0	4.61	4.64	******	0.0437	1.05	0.50
DEC 26,88	DEC 25,88	6.0	LG 2.5	******	5.22	******	0.0324	0.55	!IR ******
DEC 27,88	DEC 26,88	180.0	LG 2.0	UG 5.28	5.40	******	0.0212	<T 0.15	LG 0.07
DEC 28,88	DEC 27,88	1306.0	10.0	4.53	4.52	******	0.0509	1.10	0.23
DEC 29,88	DEC 28,88	11.0	!IS ******	******	4.63	******	0.0473	!IS ******	!IS ******
DEC 30,88	DEC 29,88	38.0	!IS ******	******	4.32	******	0.0743	!IS ******	!IS ******
DEC 31,88	DEC 30,88	76.0	28.0	******	4.31	******	0.0735	2.75	1.75

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM #07

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
NOV 14,88	NOV 13,88	<T 0.08	0.10	<T 0.010	<T 0.010	<T 0.020	0.226	0.0513
NOV 15,88	NOV 14,88	0.20	0.08	0.030	0.050	0.030	0.200	0.0646
NOV 17,88	NOV 16,88	0.78	0.31	0.115	0.115	0.130	0.396	D 0.0501
NOV 18,88	NOV 17,88	0.10	0.06	<T 0.020	<T 0.015	<T 0.010	0.416	0.0100
NOV 20,88	NOV 19,88	!IS ******	0.10	!IS ******	!IS ******	!IS ******	0.080	0.0072
NOV 21,88	NOV 20,88	0.12	0.06	<T 0.010	<T 0.010	<T 0.020	0.110	0.0209
NOV 27,88	NOV 26,88	0.20	0.43	0.035	0.035	0.155	0.180	0.0871
NOV 28,88	NOV 27,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	1.200	0.0324
NOV 29,88	NOV 28,88	<T 0.04	D 0.06	<T 0.005	<T 0.020	<T 0.015	0.496	0.0324
NOV 30,88	NOV 29,88	0.86	0.58	0.070	0.070	0.075	0.330	0.1202
DEC 1,88	NOV 30,88	0.18	0.24	<T 0.020	0.060	0.045	0.326	0.0575
DEC 2,88	DEC 1,88	<T 0.06	!IS ******	<T 0.010	0.030	0.035	<T 0.020	0.0085
DEC 4,88	DEC 3,88	0.12	!IS ******	<T 0.020	0.030	0.050	0.096	0.0132
DEC 9,88	DEC 8,88	0.18	0.26	<T 0.020	0.025	0.045	0.026	0.0037
DEC 13,88	DEC 12,88	!IS ******	0.44	!IS ******	!IS ******	!IS ******	<T 0.020	0.0363
DEC 14,88	DEC 13,88	!IS ******	0.39	!IS ******	!IS ******	!IS ******	0.046	0.0661
DEC 15,88	DEC 14,88	0.38	0.74	0.035	0.065	0.115	0.486	0.0871
DEC 17,88	DEC 16,88	0.44	0.66	0.070	0.040	0.265	<T 0.020	0.0891
DEC 19,88	DEC 18,88	0.26	!IR ******	0.035	0.200	0.375	0.100	0.0447
DEC 20,88	DEC 19,88	1.12	0.59	0.105	0.105	0.285	0.306	0.0933
DEC 21,88	DEC 20,88	0.38	0.24	0.035	0.060	0.115	0.310	0.0398
DEC 22,88	DEC 21,88	******	******	******	******	******	******	******
DEC 23,88	DEC 22,88	0.12	0.10	<T 0.015	<T 0.020	0.045	0.090	0.0224
DEC 25,88	DEC 23,88	0.20	0.21	<T 0.025	0.065	0.075	0.260	0.0229
DEC 26,88	DEC 25,88	<T 0.06	0.19	<T 0.015	0.105	0.140	0.026	0.0060
DEC 27,88	DEC 26,88	<T 0.02	D 0.35	<W 0.005	0.035	0.105	<T 0.016	0.0040
DEC 28,88	DEC 27,88	<W 0.02	0.10	<W 0.005	<T 0.020	0.025	0.100	0.0302
DEC 29,88	DEC 28,88	0.12	!IS ******	0.025	0.035	0.145	0.096	0.0234
DEC 30,88	DEC 29,88	0.26	!IS ******	0.035	0.025	0.180	<T 0.020	0.0479
DEC 31,88	DEC 30,88	1.50	0.85	0.220	0.050	0.460	0.540	0.0490

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 1,88	DEC 31,87	900	900	920	1030	2	0.6	2	48235	2	1	46		N
JAN 4,88	JAN 3,88	900	900	400	730	2	1.6	2	48238	2	1	38		N
JAN 5,88	JAN 4,88	900	900	1930	2300	2	5.0	2	48239	2	1	22		NHM
JAN 6,88	JAN 5,88	900	900	910	2300	2	3.8	2	48240	2	1	43		NHCM
JAN 10,88	JAN 9,88	900	910	1600	2200	2	0.6	2	48241	2	1	41		N
JAN 12,88	JAN 11,88	910	915	1200	1500	2	1.8	2	48242	2	1	34		N
JAN 13,88	JAN 12,88	915	900	200	430	2	1.1	2	48243	2	1	114		
JAN 15,88	JAN 14,88	900	900	400	900	2	0.8	2	48244	2	1	70		
JAN 16,88	JAN 15,88	900	900	900	2400	2	0.5	2	48245	2	1	****	E	N
JAN 19,88	JAN 18,88	900	915	930	1600	1	0.6	2	48248	2	1	195		N
JAN 20,88	JAN 19,88	915	900	30	700	1	5.2	2	48249	2	1	83		
JAN 21,88	JAN 20,88	900	910	2230	300	2	1.2	2	48250	2	1	107		
JAN 23,88	JAN 22,88	900	900	430	900	2	0.4	2	48252	2	1	89		
JAN 24,88	JAN 23,88	900	900	500	900	2	1.6	2	48253	2	1	72		
JAN 25,88	JAN 24,88	900	900	900	1430	2	3.8	2	48254	2	1	70		
JAN 29,88	JAN 28,88	900	900	900	1120	2	0.2	2	48257	2	1	15		XN
JAN 31,88	JAN 30,88	900	915	1240	1500	1	0.4	2	48258	2	1	1716		NJ
FEB 1,88	JAN 31,88	915	900	1300	2115	1	6.4	2	48259	2	1	118		
FEB 2,88	FEB 1,88	900	900	1630	500	2	11.0	2	48260	2	1	77		M
FEB 4,88	FEB 3,88	900	900	1030	200	2	2.3	2	48262	2	1	71		
FEB 6,88	FEB 5,88	900	900	1600	2330	2	0.3	2	48263	2	1	****	E	N
FEB 7,88	FEB 6,88	900	900	1000	1100	2	0.4	2	48264	2	1	****	E	N
FEB 8,88	FEB 7,88	900	900	1330	200	2	1.4	2	48265	2	1	13		N
FEB 9,88	FEB 8,88	900	900	500	900	2	1.3	2	48266	2	1	40		XN
FEB 10,88	FEB 9,88	900	900	1930	2400	2	1.6	2	48267	2	1	38		XN
FEB 12,88	FEB 11,88	900	900	1630	200	2	7.6	2	48268	2	1	U 0	F	X
FEB 13,88	FEB 12,88	900	910	1700	100	2	3.0	2	48269	2	1	11		N
FEB 15,88	FEB 14,88	900	900	2320	900	1	5.4	2	48270	2	1	102		
FEB 17,88	FEB 16,88	900	900	2100	100	2	1.4	2	48272	2	1	80		
FEB 20,88	FEB 19,88	900	900	1500	200	2	14.6	2	48274	2	1	56		
FEB 21,88	FEB 20,88	900	900	1430	100	2	5.6	2	48275	2	1	61		
FEB 23,88	FEB 22,88	900	900	1800	2030	3	0.4	2	48276	2	1	222		NH
FEB 24,88	FEB 23,88	900	900	2230	100	2	1.2	2	48277	2	1	31		NH
FEB 25,88	FEB 24,88	900	900	2130	2330	2	0.4	2	48278	2	1	39		NHCM
FEB 27,88	FEB 26,88	900	900	1700	2400	2	2.4	2	48280	2	1	39		N
FEB 29,88	FEB 28,88	900	900	2200	300	2	4.6	2	48281	2	1	64		
MAR 2,88	MAR 1,88	900	900	300	600	2	1.4	2	48283	2	1	42		N
MAR 9,88	MAR 8,88	900	830	530	830	1	0.6	2	48286	2	1	184		N
MAR 10,88	MAR 9,88	830	900	830	1200	1	0.2	2	48287	2	1	124		N
MAR 13,88	MAR 12,88	900	900	1430	1730	3	4.6	2	48288	2	1	85		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05 PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 1,88	DEC 31,87	18.0	22.0	******	4.49	******	0.0589	2.35	0.49
JAN 4,88	JAN 3,88	40.0	24.0	******	4.41	******	0.0678	0.70	1.18
JAN 5,88	JAN 4,88	72.0	LG 2.5	******	UG 6.81	******	0.0146	0.30	0.11
JAN 6,88	JAN 5,88	107.0	<T 0.5	******	UG 5.84	******	0.0165	<T 0.15	<T 0.03
JAN 10,88	JAN 9,88	16.0	5.0	******	UG 5.86	******	0.0174	0.30	0.14
JAN 12,88	JAN 11,88	40.0	!IS ******	******	5.41	******	0.0204	0.55	0.85
JAN 13,88	JAN 12,88	81.0	D 46.5	******	D 4.09	******	0.1080	3.50	1.21
JAN 15,88	JAN 14,88	36.0	!IS ******	******	4.18	******	0.0806	0.35	0.91
JAN 16,88	JAN 15,88	******	******	******	******	******	******	******	******
JAN 19,88	JAN 18,88	75.0	59.5	******	3.85	******	0.1590	2.75	1.41
JAN 20,88	JAN 19,88	278.0	18.0	4.48	4.49	******	0.0498	1.25	!CR ******
JAN 21,88	JAN 20,88	83.0	54.5	******	4.03	******	D 0.1390	3.45	1.45
JAN 23,88	JAN 22,88	23.0	34.0	******	4.26	******	0.0867	1.20	1.26
JAN 24,88	JAN 23,88	74.0	39.0	******	4.12	******	0.1130	1.15	1.12
JAN 25,88	JAN 24,88	171.0	31.5	******	4.19	******	0.0951	D 1.75	0.75
JAN 29,88	JAN 28,88	2.0	******	******	******	******	******	******	******
JAN 31,88	JAN 30,88	440.0	> 100.0	4.30	3.91	******	0.1850	B 12.40	2.63
FEB 1,88	JAN 31,88	485.0	27.0	4.24	4.36	******	0.0719	2.90	0.33
FEB 2,88	FEB 1,88	547.0	5.0	4.81	4.96	******	0.0325	0.60	0.12
FEB 4,88	FEB 3,88	106.0	13.0	4.53	4.54	******	0.0511	0.25	0.46
FEB 6,88	FEB 5,88	******	******	******	******	******	******	******	******
FEB 7,88	FEB 6,88	******	******	******	******	******	******	******	******
FEB 8,88	FEB 7,88	12.0	******	******	******	******	******	******	******
FEB 9,88	FEB 8,88	34.0	******	******	******	******	******	******	******
FEB 10,88	FEB 9,88	40.0	******	******	******	******	******	******	******
FEB 12,88	FEB 11,88	4.0	******	******	******	******	******	******	******
FEB 13,88	FEB 12,88	22.0	!IS ******	******	!IR ******	******	!IR ******	!IS ******	!IS ******
FEB 15,88	FEB 14,88	356.0	46.0	4.02	4.01	******	0.1390	3.20	0.84
FEB 17,88	FEB 16,88	72.0	16.5	******	4.84	******	0.0418	1.40	0.76
FEB 20,88	FEB 19,88	526.0	22.0	4.31	4.33	******	0.0752	1.00	0.64
FEB 21,88	FEB 20,88	219.0	25.5	4.30	4.34	******	0.0768	1.45	0.78
FEB 23,88	FEB 22,88	57.0	D 45.0	******	UG 7.21	******	0.0221	D 6.15	2.42
FEB 24,88	FEB 23,88	24.0	LG 3.0	******	UG 6.14	******	0.0194	0.40	0.17
FEB 25,88	FEB 24,88	10.0	LG 1.0	******	B 6.55	******	D 0.0159	0.25	LG 0.05
FEB 27,88	FEB 26,88	60.0	26.5	******	4.43	******	0.0707	0.95	1.15
FEB 29,88	FEB 28,88	190.0	30.0	4.32	4.29	******	0.0851	1.25	1.14
MAR 2,88	MAR 1,88	38.0	28.5	******	4.51	******	0.0563	1.25	1.32
MAR 9,88	MAR 8,88	71.0	69.0	******	3.95	******	0.1610	5.80	1.33
MAR 10,88	MAR 9,88	16.0	23.0	******	UG 6.09	******	0.0226	4.00	0.82
MAR 13,88	MAR 12,88	252.0	44.0	4.18	4.21	******	0.0989	4.00	0.99

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 1,88	DEC 31,87	0.24	0.43	0.025	0.030	0.190	0.475	0.0324
JAN 4,88	JAN 3,88	0.80	0.44	0.120	<T 0.015	0.145	0.030	0.0389
JAN 5,88	JAN 4,88	0.42	0.13	0.045	<T 0.010	0.055	<T 0.005	UG 0.0002
JAN 6,88	JAN 5,88	<T 0.06	0.08	<T 0.005	<T 0.005	<T 0.020	<T 0.005	UG 0.0014
JAN 10,88	JAN 9,88	!IS ******	0.25	!IS ******	!IS ******	!IS ******	<T 0.010	UG 0.0014
JAN 12,88	JAN 11,88	!IS ******	0.48	!IS ******	!IS ******	!IS ******	<T 0.020	0.0039
JAN 13,88	JAN 12,88	D 0.40	0.25	0.040	0.045	0.095	0.950	D 0.0813
JAN 15,88	JAN 14,88	!IS ******	0.54	!IS ******	!IS ******	!IS ******	<T 0.025	0.0661
JAN 16,88	JAN 15,88	******	******	******	******	******	******	******
JAN 19,88	JAN 18,88	<T 0.04	0.15	<T 0.005	<T 0.020	0.040	0.410	0.1413
JAN 20,88	JAN 19,88	<T 0.04	0.07	<T 0.005	<T 0.010	0.030	D 0.115	0.0324
JAN 21,88	JAN 20,88	0.18	0.18	0.030	0.030	0.080	0.750	0.0933
JAN 23,88	JAN 22,88	!IS ******	0.41	!IS ******	!IS ******	!IS ******	0.240	0.0550
JAN 24,88	JAN 23,88	0.10	0.28	<T 0.015	<T 0.010	0.045	0.240	0.0759
JAN 25,88	JAN 24,88	D 0.14	0.29	<T 0.020	<T 0.010	0.060	0.240	0.0646
JAN 29,88	JAN 28,88	******	******	******	******	******	******	******
JAN 31,88	JAN 30,88	B 2.90	B 1.72	D 0.295	UG 0.235	B 1.310	1.980	0.1230
FEB 1,88	JAN 31,88	0.20	D 0.67	D 0.060	0.035	D 0.420	0.320	0.0437
FEB 2,88	FEB 1,88	<W 0.02	<W 0.01	<T 0.005	<T 0.005	<T 0.020	0.050	0.0110
FEB 4,88	FEB 3,88	<T 0.02	0.11	<T 0.005	<T 0.005	<T 0.025	<T 0.020	0.0288
FEB 6,88	FEB 5,88	******	******	******	******	******	******	******
FEB 7,88	FEB 6,88	******	******	******	******	******	******	******
FEB 8,88	FEB 7,88	******	******	******	******	******	******	******
FEB 9,88	FEB 8,88	******	******	******	******	******	******	******
FEB 10,88	FEB 9,88	******	******	******	******	******	******	******
FEB 12,88	FEB 11,88	******	******	******	******	******	******	******
FEB 13,88	FEB 12,88	0.26	!IS ******	0.030	0.045	0.320	0.640	!IR ******
FEB 15,88	FEB 14,88	0.14	0.29	<T 0.025	0.025	0.130	0.320	0.0977
FEB 17,88	FEB 16,88	D 0.76	0.28	0.070	0.035	0.195	0.290	0.0145
FEB 20,88	FEB 19,88	0.10	0.05	<T 0.010	<T 0.005	<T 0.025	0.140	0.0468
FEB 21,88	FEB 20,88	<T 0.10	0.14	<T 0.010	<T 0.005	0.040	0.410	0.0457
FEB 23,88	FEB 22,88	UG 3.16	1.01	0.430	D 0.210	B 0.710	1.780	UG 0.0001
FEB 24,88	FEB 23,88	0.24	0.17	0.040	<T 0.010	0.080	0.090	UG 0.0007
FEB 25,88	FEB 24,88	<T 0.10	<T 0.03	<T 0.010	<T 0.005	0.030	0.050	B 0.0003
FEB 27,88	FEB 26,88	0.96	0.83	0.125	<T 0.020	0.225	0.320	0.0372
FEB 29,88	FEB 28,88	0.28	0.24	0.030	<T 0.015	0.125	0.450	0.0513
MAR 2,88	MAR 1,88	!IS ******	0.36	!IS ******	!IS ******	!IS ******	0.630	0.0309
MAR 9,88	MAR 8,88	0.66	0.27	0.065	0.060	0.120	0.760	0.1122
MAR 10,88	MAR 9,88	!IS ******	0.23	!IS ******	!IS ******	!IS ******	1.140	UG 0.0008
MAR 13,88	MAR 12,88	0.54	0.21	0.055	0.050	0.100	0.660	0.0617

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
MAR 14,88	MAR 13,88	900	900	1620	2000	2	0.4	2	48289	2	1	54		
MAR 19,88	MAR 18,88	900	900	940	1415	2	1.2	2	48290	2	1	45		N
MAR 20,88	MAR 19,88	900	900	1625	1720	2	1.0	2	48291	2	1	82		HM
MAR 26,88	MAR 25,88	900	900	1030	2030	1	9.2	2	48293	2	1	110		
MAR 27,88	MAR 26,88	900	900	1615	2200	1	3.8	2	48294	2	1	121		N
MAR 28,88	MAR 27,88	900	900	1200	1700	2	1.6	2	48295	2	1	22		N
MAR 29,88	MAR 28,88	900	850	2400	300	1	0.2	2	48296	2	1	429		N
APR 3,88	APR 2,88	830	930	300	630	1	7.2	2	48298	2	1	108		
APR 4,88	APR 3,88	930	900	1220	1500	1	7.4	2	48299	2	1	105		
APR 5,88	APR 4,88	900	900	1000	1210	1	1.4	2	48300	2	1	154		N
APR 7,88	APR 6,88	900	915	2400	600	1	0.3	2	48301	2	1	218		NHCN
APR 8,88	APR 7,88	915	900	900	1230	1	2.0	2	48302	2	1	171		N
APR 14,88	APR 13,88	900	915	500	915	1	6.2	1	48304	2	1	101		
APR 15,88	APR 14,88	915	900	1740	2100	3	4.4	1	48305	2	1	88		
APR 16,88	APR 15,88	900	915	1100	1430	2	0.8	1	48306	2	1	15		N
APR 18,88	APR 17,88	900	915	2100	300	3	7.0	1	48307	2	1	97		JHN
APR 19,88	APR 18,88	915	900	915	1100	2	0.6	1	48308	2	1	41		N
APR 21,88	APR 20,88	900	900	1730	2100	3	4.8	1	48309	2	1	100		JM
APR 24,88	APR 23,88	900	900	2130	2220	3	7.8	1	48311	2	1	89		
APR 25,88	APR 24,88	900	900	900	1100	1	0.2	1	48312	2	1	109		
APR 26,88	APR 25,88	900	915	400	915	1	7.2	1	48313	2	1	103		
APR 28,88	APR 27,88	900	900	1640	2350	1	8.0	1	48315	2	1	101		
APR 29,88	APR 28,88	900	900	1838	100	1	1.4	1	48316	2	1	57		
APR 30,88	APR 29,88	900	900	900	1430	1	3.0	1	48317	2	1	93		C
MAY 10,88	MAY 9,88	900	900	2130	2230	1	5.0	1	48320	2	1	104		
MAY 13,88	MAY 12,88	900	900	900	1000	1	1.2	1	48321	2	1	88		
MAY 14,88	MAY 13,88	900	900	900	1130	1	4.4	1	48322	2	1	93		JH
MAY 16,88	MAY 15,88	900	900	2100	300	1	24.0	1	48323	2	1	100		
MAY 17,88	MAY 16,88	900	900	1500	2000	1	28.4	1	48324	2	1	107		
MAY 18,88	MAY 17,88	900	900	900	1420	1	6.0	1	48327	2	1	97		
MAY 20,88	MAY 19,88	900	900	1740	1900	1	2.0	1	48329	2	1	70		H
MAY 21,88	MAY 20,88	900	900	900	1230	1	7.3	1	48330	2	1	104		H
MAY 22,88	MAY 21,88	900	900	900	1030	1	0.2	1	48331	2	1	****	E	N
MAY 25,88	MAY 24,88	900	900	100	700	1	2.8	1	48332	2	1	88		H
JUN 2,88	JUN 1,88	900	900	1500	1600	1	1.0	1	48334	2	1	87		
JUN 3,88	JUN 2,88	900	900	2000	300	1	1.0	1	48335	2	1	87		
JUN 7,88	JUN 6,88	900	900	1630	1800	1	0.7	1	48337	2	1	115		H
JUN 8,88	JUN 7,88	900	900	****	****	1	0.2	1	48338	2	1	54	E	
JUN 20,88	JUN 19,88	900	900	****	****	1	0.3	1	48341	2	1	****	E	N
JUN 22,88	JUN 21,88	900	900	2340	830	1	9.8	1	48342	2	1	112		J

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05 PAGE : 5

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
MAR 14,88	MAR 13,88	14.0	17.5	******	4.75	******	0.0417	1.95	0.57
MAR 19,88	MAR 18,88	35.0	28.0	******	4.58	******	0.0538	D 2.05	1.06
MAR 20,88	MAR 19,88	53.0	8.0	******	UG 7.07	******	0.0159	0.70	0.18
MAR 26,88	MAR 25,88	652.0	23.5	D 4.39	4.43	******	D 0.0573	2.65	0.41
MAR 27,88	MAR 26,88	295.0	40.0	4.23	4.24	******	0.0866	D 3.90	1.23
MAR 28,88	MAR 27,88	23.0	4.0	******	5.31	******	0.0197	0.50	<T 0.04
MAR 29,88	MAR 28,88	55.0	16.5	******	4.63	******	0.0429	1.85	0.36
APR 3,88	APR 2,88	501.0	47.0	4.00	3.95	******	0.1390	3.95	0.64
APR 4,88	APR 3,88	500.0	18.5	4.43	4.45	******	0.0527	1.95	0.20
APR 5,88	APR 4,88	139.0	22.0	4.48	4.49	******	0.0553	2.15	0.59
APR 7,88	APR 6,88	42.0	> 100.0	******	LG 3.39	******	UG 0.4760	> 10.00	> 2.00
APR 8,88	APR 7,88	220.0	85.0	D 3.78	3.81	******	0.2110	6.50	1.44
APR 14,88	APR 13,88	404.0	85.0	3.80	3.85	******	0.1910	6.20	2.36
APR 15,88	APR 14,88	250.0	36.0	4.18	4.28	******	0.0826	3.80	0.78
APR 16,88	APR 15,88	8.0	LG 3.5	******	UCR 5.85	******	UCR 0.0251	0.50	LG 0.05
APR 18,88	APR 17,88	437.0	8.0	UG 5.55	UG 6.70	******	0.0168	1.20	0.33
APR 19,88	APR 18,88	16.0	LG 3.5	******	UCR 6.73	******	UCR 0.0168	0.45	LG 0.07
APR 21,88	APR 20,88	310.0	29.5	UG 6.47	UG 7.42	******	0.0164	4.40	0.96
APR 24,88	APR 23,88	450.0	62.0	4.02	4.04	******	0.1410	5.45	1.71
APR 25,88	APR 24,88	14.0	17.0	******	4.57	******	0.0500	1.85	0.14
APR 26,88	APR 25,88	479.0	33.0	4.70	5.06	******	0.0395	4.95	1.27
APR 28,88	APR 27,88	519.0	30.0	4.12	4.16	******	0.0988	3.30	0.77
APR 29,88	APR 28,88	52.0	37.5	******	UCR 4.25	******	UCR 0.0899	2.60	0.61
APR 30,88	APR 29,88	179.0	8.5	4.80	4.92	******	0.0312	0.45	LG 0.08
MAY 10,88	MAY 9,88	335.0	40.0	4.11	4.22	******	0.0937	4.95	0.54
MAY 13,88	MAY 12,88	68.0	35.0	******	B 7.01	******	0.0218	6.60	1.26
MAY 14,88	MAY 13,88	263.0	12.5	4.88	5.51	******	0.0248	2.70	0.35
MAY 16,88	MAY 15,88	1546.0	42.5	4.04	4.11	******	0.1100	4.45	0.68
MAY 17,88	MAY 16,88	1960.0	9.5	4.68	4.97	******	0.0313	0.95	0.21
MAY 18,88	MAY 17,88	374.0	9.0	4.64	4.73	******	0.0340	0.90	0.11
MAY 20,88	MAY 19,88	90.0	6.5	******	5.18	******	0.0245	0.60	0.21
MAY 21,88	MAY 20,88	487.0	LG 2.0	UG 5.29	5.48	******	LG 0.0136	<W 0.05	0.07
MAY 22,88	MAY 21,88	******	******	******	******	******	******	******	******
MAY 25,88	MAY 24,88	159.0	9.0	4.66	4.85	******	0.0314	1.10	0.10
JUN 2,88	JUN 1,88	56.0	21.0	******	4.59	******	0.0497	2.85	0.38
JUN 3,88	JUN 2,88	56.0	14.5	******	4.61	******	0.0464	0.70	0.38
JUN 7,88	JUN 6,88	52.0	13.5	******	UG 5.60	******	0.0210	2.00	0.33
JUN 8,88	JUN 7,88	7.0	!IS ******	******	5.43	******	0.0204	!IS ******	!IS ******
JUN 20,88	JUN 19,88	******	!RE ******	******	!RE ******	******	!RE ******	!RE ******	!RE ******
JUN 22,88	JUN 21,88	709.0	17.0	4.32	4.77	******	0.0405	2.30	0.52

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05 PAGE : 6

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
MAR 14,88	MAR 13,88	!IS ******	0.24	!IS ******	!IS ******	!IS ******	0.560	0.0178
MAR 19,88	MAR 18,88	!IS ******	D 0.39	!IS ******	!IS ******	!IS ******	0.590	0.0263
MAR 20,88	MAR 19,88	0.46	0.46	0.040	<T 0.010	0.300	0.240	UG 0.0001
MAR 26,88	MAR 25,88	0.46	0.23	0.050	0.035	0.250	0.220	0.0372
MAR 27,88	MAR 26,88	0.96	D 0.31	0.100	0.050	0.070	0.840	0.0575
MAR 28,88	MAR 27,88	<T 0.04	<T 0.02	<W 0.005	<T 0.015	<T 0.025	0.070	0.0049
MAR 29,88	MAR 28,88	0.48	0.08	0.035	0.025	0.055	0.190	0.0234
APR 3,88	APR 2,88	0.20	0.40	0.035	0.025	0.190	0.220	0.1122
APR 4,88	APR 3,88	0.14	<T 0.05	<T 0.010	<T 0.020	0.030	0.140	0.0355
APR 5,88	APR 4,88	0.12	0.08	<T 0.005	<T 0.025	0.030	0.750	0.0324
APR 7,88	APR 6,88	2.24	0.94	0.265	UG 0.445	0.445	1.500	LG 0.4074
APR 8,88	APR 7,88	0.36	0.29	0.040	0.060	0.105	0.570	0.1549
APR 14,88	APR 13,88	1.06	0.49	0.185	0.055	0.125	1.160	0.1413
APR 15,88	APR 14,88	0.32	0.14	0.065	0.055	0.035	0.770	0.0525
APR 16,88	APR 15,88	0.14	0.08	<T 0.005	0.055	0.030	!IS ******	UCR 0.0014
APR 18,88	APR 17,88	0.42	0.05	0.065	0.025	<T 0.015	0.330	UG 0.0002
APR 19,88	APR 18,88	0.34	0.10	<T 0.020	0.040	0.050	!IS ******	UCR 0.0002
APR 21,88	APR 20,88	1.72	0.23	0.300	0.095	D 0.100	1.590	UG 0.0000
APR 24,88	APR 23,88	0.92	0.32	0.125	0.065	0.070	1.160	0.0912
APR 25,88	APR 24,88	0.14	0.14	<T 0.010	0.080	0.080	!IS ******	0.0269
APR 26,88	APR 25,88	0.84	0.14	0.180	0.045	0.050	1.780	0.0087
APR 28,88	APR 27,88	0.38	0.14	0.035	0.040	0.030	0.390	0.0692
APR 29,88	APR 28,88	0.18	0.11	<T 0.020	0.040	0.075	0.270	UCR 0.0562
APR 30,88	APR 29,88	<T 0.02	<T 0.04	<W 0.005	<W 0.005	<T 0.015	0.060	0.0120
MAY 10,88	MAY 9,88	0.66	0.20	0.075	0.065	0.035	0.620	0.0603
MAY 13,88	MAY 12,88	2.10	0.32	0.330	D 0.155	0.105	1.840	B 0.0001
MAY 14,88	MAY 13,88	0.62	<T 0.05	0.040	0.030	<T 0.010	0.670	0.0031
MAY 16,88	MAY 15,88	0.38	0.12	0.050	<T 0.020	<T 0.005	0.540	0.0776
MAY 17,88	MAY 16,88	0.12	<T 0.03	<T 0.020	<T 0.010	<W 0.005	0.190	0.0107
MAY 18,88	MAY 17,88	<W 0.02	<T 0.02	<W 0.005	<W 0.005	<T 0.005	0.080	0.0186
MAY 20,88	MAY 19,88	<T 0.06	D 0.07	<T 0.010	0.070	0.045	0.146	0.0066
MAY 21,88	MAY 20,88	<W 0.02	<T 0.01	<W 0.005	<W 0.005	<W 0.005	LG 0.012	0.0033
MAY 22,88	MAY 21,88	******	******	******	******	******	******	******
MAY 25,88	MAY 24,88	<T 0.06	<T 0.04	<T 0.010	0.050	<T 0.010	0.064	0.0141
JUN 2,88	JUN 1,88	0.52	0.17	0.080	0.135	0.095	0.252	0.0257
JUN 3,88	JUN 2,88	0.32	0.35	0.040	0.115	0.045	<T 0.0[illegible]	0.0245
JUN 7,88	JUN 6,88	0.90	0.13	0.135	0.130	0.070	D 0.25[illegible]	UG 0.0025
JUN 8,88	JUN 7,88	0.14	!IS ******	<T 0.010	0.055	0.035	<T 0.004	0.0037
JUN 20,88	JUN 19,88	!IS ******	!RE ******	!IS ******	!IS ******	!IS ******	!RE ******	!RE ******
JUN 22,88	JUN 21,88	0.46	<W 0.09	0.070	0.025	0.035	0.592	0.0170

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05 PAGE : 7

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JUN 23,88	JUN 22,88	900	905	906	1210	1	11.2	1	48343	2	1	103		
JUN 25,88	JUN 24,88	905	900	830	900	1	0.4	1	48344	2	1	109		
JUN 26,88	JUN 25,88	900	900	900	1030	1	9.0	1	48345	2	1	104	C	
JUN 29,88	JUN 28,88	900	900	1000	1400	1	6.0	1	48347	2	1	100		J
JUL 11,88	JUL 10,88	910	900	100	900	1	18.0	1	48350	2	1	63		
JUL 12,88	JUL 11,88	900	900	900	930	1	****	1	48354	2	1	****		X
JUL 14,88	JUL 13,88	900	900	100	530	1	4.0	1	48353	2	1	105		
JUL 16,88	JUL 15,88	900	900	200	500	1	2.6	1	48357	2	1	96		JC
JUL 17,88	JUL 16,88	900	900	430	530	1	2.5	1	48356	2	1	94		
JUL 23,88	JUL 22,88	900	900	1300	1400	1	2.0	1	48360	2	1	98		JH
JUL 24,88	JUL 23,88	900	900	430	530	1	0.6	1	48361	2	1	51		
JUL 25,88	JUL 24,88	900	900	1700	2000	1	1.8	1	48362	2	1	88		
JUL 26,88	JUL 25,88	900	900	1835	1930	1	1.2	1	48363	2	1	92		
JUL 27,88	JUL 26,88	900	900	1100	1240	1	2.6	1	48364	2	1	89		
JUL 31,88	JUL 30,88	900	900	1900	1930	1	3.8	1	48365	2	1	84		
AUG 1,88	JUL 31,88	900	900	600	900	1	1.6	1	48366	2	1	83		
AUG 5,88	AUG 4,88	900	900	1753	1900	1	22.8	1	48368	2	1	102		
AUG 6,88	AUG 5,88	900	900	100	430	1	8.0	1	48369	2	1	86		
AUG 7,88	AUG 6,88	900	900	1930	2000	1	0.8	1	48370	2	1	74		
AUG 10,88	AUG 9,88	900	900	1100	1530	1	40.0	1	48371	2	1	84		
AUG 12,88	AUG 11,88	855	900	900	915	1	0.6	1	48374	2	1	75		
AUG 15,88	AUG 14,88	900	900	835	900	1	0.6	1	48375	2	1	127		N
AUG 16,88	AUG 15,88	900	900	900	1000	1	1.2	1	48376	2	1	75		
AUG 17,88	AUG 16,88	900	900	500	800	1	3.4	1	48377	2	1	101		
AUG 18,88	AUG 17,88	900	900	1225	1300	1	13.0	1	48378	2	1	101		
AUG 24,88	AUG 23,88	900	900	1730	900	1	13.0	1	48381	2	1	51		
AUG 25,88	AUG 24,88	900	900	1600	1700	1	7.4	1	48382	2	1	102		
AUG 26,88	AUG 25,88	900	900	1240	1530	1	8.8	1	48383	2	1	98		C
AUG 27,88	AUG 26,88	900	900	910	915	1	0.6	1	48384	2	1	41		N
AUG 28,88	AUG 27,88	900	900	****	****	1	0.5	1	48385	2	1	99		
SEP 1,88	AUG 31,88	900	900	****	****	1	1.0	1	48386	2	1	39		N
SEP 3,88	SEP 2,88	900	900	****	****	1	0.2	1	48387	2	1	U 93	FJ	
SEP 4,88	SEP 3,88	900	900	2000	800	1	22.0	1	48388	2	1	U 107	FJ	
SEP 5,88	SEP 4,88	900	900	1830	700	1	27.0	1	48389	2	1	U 102	FJ	
SEP 7,88	SEP 6,88	900	900	1930	2200	1	0.8	1	48390	2	1	U 74	FJ	
SEP 13,88	SEP 12,88	900	900	1230	300	1	4.0	1	48391	2	1	90		N
SEP 15,88	SEP 14,88	900	900	1750	1840	1	1.4	1	48397	2	1	U 71	FJ	
SEP 17,88	SEP 16,88	900	900	100	900	1	5.8	1	48396	2	1	U 98	FJ	
SEP 18,88	SEP 17,88	900	900	1700	1830	1	1.0	1	48395	2	1	U 90	FJ	
SEP 20,88	SEP 19,88	900	900	100	900	1	2.6	1	48394	2	1	U 98	JF	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
API03 - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM 805

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
JUN 23,88	JUN 22,88	745.0		16.5		4.74		4.74	******		0.0703		1.90		0.30
JUN 25,88	JUN 24,88	28.0	D	90.5		******		3.89	******		0.1710	D	9.80		2.01
JUN 26,88	JUN 25,88	601.0		39.0		4.15	D	4.47	******		0.0716		5.30		1.17
JUN 29,88	JUN 28,88	386.0		7.0		4.44		4.94	******		0.0311		0.65		0.10
JUL 11,88	JUL 10,88	729.0		45.0		4.05		4.15	******		0.0997		5.05		0.51
JUL 12,88	JUL 11,88	2.0		******		******		******	******		******		******		******
JUL 14,88	JUL 13,88	270.0		28.5		4.28		4.42	******		0.0619		3.10		0.53
JUL 16,88	JUL 15,88	160.0		9.5		4.61		5.33	******		0.0227		0.65		0.28
JUL 17,88	JUL 16,88	152.0	D	35.0		4.14		4.27	******		0.0769		2.70		0.76
JUL 23,88	JUL 22,88	126.0		13.5		4.59	D	5.47	******		0.0215		1.15		0.61
JUL 24,88	JUL 23,88	20.0		18.5		******		4.64	******		0.0439		1.90		0.41
JUL 25,88	JUL 24,88	102.0	D	27.5		4.21		4.33	******		0.0678		1.60		0.49
JUL 26,88	JUL 25,88	71.0		34.0		******		4.29	******		0.0759		2.90		0.75
JUL 27,88	JUL 26,88	149.0		38.0		4.30		4.16	******		0.0931		2.75		0.75
JUL 31,88	JUL 30,88	207.0		18.5		4.41		4.54	******		0.0497		1.90		0.38
AUG 1,88	JUL 31,88	86.0		10.5		******	UG	6.33	******		0.0193		1.25		0.38
AUG 5,88	AUG 4,88	1502.0		77.0		3.82		3.85	******		0.1690		9.85		0.80
AUG 6,88	AUG 5,88	446.0	D	18.5	D	4.40	D	4.57	******	D	0.0452	D	1.85		0.33
AUG 7,88	AUG 6,88	38.0		7.0		******		5.23	******		0.0247		0.65		0.14
AUG 10,88	AUG 9,88	2168.0		54.0		3.92		3.97	******		0.1310		5.90		0.62
AUG 12,88	AUG 11,88	29.0		22.0		******		4.39	******		0.0716		2.40		0.57
AUG 15,88	AUG 14,88	49.0		27.0		******		4.44	******		0.0709		3.70		0.83
AUG 16,88	AUG 15,88	58.0	LG	3.0		******	UG	5.86	******		0.0209		0.65	LG	0.06
AUG 17,88	AUG 16,88	222.0		7.5		4.54		4.83	******		0.0381		0.90		0.28
AUG 18,88	AUG 17,88	845.0		14.5		4.43		4.60	******		0.0514		1.95		0.35
AUG 24,88	AUG 23,88	433.0		56.0		3.87		3.88	******		0.1640		5.50		0.96
AUG 25,88	AUG 24,88	486.0		15.0		4.60		4.65	******		0.0471		2.25		0.33
AUG 26,88	AUG 25,88	553.0	D	60.0	UG	6.28	UG	6.49	******		0.0219		1.20		0.21
AUG 27,88	AUG 26,88	16.0	LG	2.5		******	UG	6.01	******		0.0187		0.50		0.07
AUG 28,88	AUG 27,88	32.0	>	100.0		******	LG	3.38	******	UG	0.5140		9.20		1.91
SEP 1,88	AUG 31,88	25.0		10.0		******	B	5.60	******		0.0237	D	1.50		0.44
SEP 3,88	SEP 2,88	12.0		44.0		******		4.03	******		0.1250		4.60		0.94
SEP 4,88	SEP 3,88	1510.0		32.5		4.09		4.09	******		0.1050		3.40		0.27
SEP 5,88	SEP 4,88	1779.0		6.0		4.74		4.82	******		0.0336		0.70		0.07
SEP 7,88	SEP 6,88	38.0	D	15.0		******	!IR	******	******	!IR	******		2.05		0.21
SEP 13,88	SEP 12,88	232.0		21.5		4.20		4.45	******		0.0629		2.30		0.38
SEP 15,88	SEP 14,88	64.0		10.0		******		4.82	******		0.0393		1.60	<T	0.05
SEP 17,88	SEP 16,88	366.0	D	29.5	D	4.16		4.22	******		0.0923	D	3.00		0.39
SEP 18,88	SEP 17,88	58.0		79.5		******		3.91	******		0.1740		9.90		1.75
SEP 20,88	SEP 19,88	165.0		46.5		4.00		4.07	******		0.1310		5.65		0.56

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05 PAGE : 9

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JUN 23,88	JUN 22,88	0.20	0.07	0.035	0.025	<T 0.015	0.344	0.0182
JUN 25,88	JUN 24,88	!IS ******	0.55	!IS ******	!IS ******	!IS ******	D 1.550	0.1288
JUN 26,88	JUN 25,88	D 1.44	0.28	0.130	0.120	D 0.065	D 1.120	D 0.0339
JUN 29,88	JUN 28,88	0.18	<T 0.05	<T 0.015	<T 0.010	<T 0.010	<T 0.020	0.0115
JUL 11,88	JUL 10,88	0.14	0.09	<T 0.020	<T 0.015	<T 0.020	0.852	0.0708
JUL 12,88	JUL 11,88	******	******	******	******	******	******	******
JUL 14,88	JUL 13,88	D 0.58	0.09	0.090	0.030	<T 0.010	0.396	0.0380
JUL 16,88	JUL 15,88	0.24	<T 0.04	0.030	<T 0.010	<T 0.020	0.168	0.0047
JUL 17,88	JUL 16,88	0.26	0.18	0.040	0.040	0.110	0.514	0.0537
JUL 23,88	JUL 22,88	0.96	0.11	0.045	0.030	<T 0.015	0.336	D 0.0034
JUL 24,88	JUL 23,88	!IS ******	0.09	!IS ******	!IS ******	!IS ******	0.242	0.0229
JUL 25,88	JUL 24,88	<T 0.10	0.07	<T 0.005	0.040	<T 0.020	0.182	0.0468
JUL 26,88	JUL 25,88	0.56	0.15	0.040	0.045	0.030	0.494	0.0513
JUL 27,88	JUL 26,88	0.26	0.10	<T 0.020	<T 0.015	<T 0.010	0.392	0.0692
JUL 31,88	JUL 30,88	0.22	0.08	0.035	0.035	0.035	0.228	0.0288
AUG 1,88	JUL 31,88	0.22	0.11	0.035	0.045	0.050	0.644	UG 0.0005
AUG 5,88	AUG 4,88	0.54	0.17	0.125	0.035	0.030	1.120	0.1413
AUG 6,88	AUG 5,88	0.16	<T 0.04	0.025	<T 0.020	<T 0.015	D 0.230	D 0.0269
AUG 7,88	AUG 6,88	!IS ******	<T 0.08	!IS ******	!IS ******	!IS ******	0.074	0.0059
AUG 10,88	AUG 9,88	0.34	0.11	0.045	<T 0.020	<T 0.025	0.530	0.1072
AUG 12,88	AUG 11,88	D 0.46	D 0.15	D 0.035	D 0.040	D 0.055	0.226	0.0407
AUG 15,88	AUG 14,88	0.82	0.23	0.110	0.055	0.080	0.576	0.0363
AUG 16,88	AUG 15,88	0.20	<T 0.03	<T 0.015	<T 0.020	<T 0.020	0.076	UG 0.0014
AUG 17,88	AUG 16,88	<T 0.06	<T 0.04	<T 0.015	<W 0.005	<T 0.015	0.216	0.0148
AUG 18,88	AUG 17,88	0.18	<T 0.05	0.040	<T 0.015	<T 0.015	0.320	0.0251
AUG 24,88	AUG 23,88	0.22	0.11	0.025	<T 0.020	<T 0.020	0.500	0.1318
AUG 25,88	AUG 24,88	0.14	0.29	<T 0.020	0.025	0.070	0.540	0.0224
AUG 26,88	AUG 25,88	0.24	<T 0.04	0.040	0.025	<T 0.020	0.476	UG 0.0003
AUG 27,88	AUG 26,88	!IS ******	0.36	!IS ******	!IS ******	!IS ******	0.070	UG 0.0010
AUG 28,88	AUG 27,88	!IS ******	0.85	!IS ******	!IS ******	!IS ******	1.790	LG 0.4169
SEP 1,88	AUG 31,88	!IS ******	0.10	!IS ******	!IS ******	!IS ******	D 0.226	B 0.0025
SEP 3,88	SEP 2,88	!IS ******	0.18	!IS ******	!IS ******	!IS ******	0.320	0.0933
SEP 4,88	SEP 3,88	<T 0.04	<W 0.01	<T 0.005	<T 0.007	<W 0.005	0.226	0.0813
SEP 5,88	SEP 4,88	<W 0.02	<W 0.01	<W 0.005	<W 0.005	<W 0.005	0.090	0.0151
SEP 7,88	SEP 6,88	D 2.02	0.18	0.110	0.090	0.115	0.286	!IR ******
SEP 13,88	SEP 12,88	0.20	0.42	[illegible]	<T 0.015	0.035	0.230	0.0355
SEP 15,88	SEP 14,88	0.18	<W 0.01	<T 0.015	0.025	0.030	0.110	0.0151
SEP 17,88	SEP 16,88	0.10	0.06	<T 0.015	[illegible]	<T 0.015	D 0.140	0.0603
SEP 18,88	SEP 17,88	D 0.78	B 1.47	D	[illegible]	D 0.115	1.890	0.1230
SEP 20,88	SEP 19,88	D 0.58	0.28		0.070	0.125	0.266	0.0851

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05 PAGE : 10

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	HR.	PRECIP START/END HR.	HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	OFFICE
SEP 21,88	SEP 20,88	900	900	100	600	1	1.6	1	48393	2	1	U 78	FJ	HM
SEP 22,88	SEP 21,88	900	900	1000	1130	1	1.0	1	48398	2	1	U 71	JF	
SEP 23,88	SEP 22,88	900	900	2100	2230	1	10.4	1	48399	2	1	U 104	FJ	HCM
SEP 27,88	SEP 26,88	900	900	1900	2000	1	1.2	1	48401	2	1	U 59	FJ	
SEP 28,88	SEP 27,88	900	900	1330	1600	1	11.6	1	48402	2	1	U 95	FJ	
OCT 2,88	OCT 1,88	900	900	300	900	1	10.6	1	48403	2	1	U 96	BCJF	J
OCT 3,88	OCT 2,88	900	900	1700	2100	1	6.0	1	48404	2	1	U 92	CDFJ	JM
OCT 5,88	OCT 4,88	900	900	1700	500	1	14.6	1	48405	2	1	U 102	FJ	
OCT 8,88	OCT 7,88	900	900	1500	1650	1	6.0	1	48406	2	1	U 93	CFJ	JHM
OCT 11,88	OCT 10,88	900	900	1600	****	1	9.6	1	48407	2	1	U 95	FJ	
OCT 12,88	OCT 11,88	900	900	1000	1030	1	0.2	1	48408	2	1	****	EFJ	
OCT 17,88	OCT 16,88	900	900	30	300	1	1.6	1	48409	2	1	83		
OCT 18,88	OCT 17,88	900	900	2130	500	1	12.4	1	48410	2	1	52		HM
OCT 22,88	OCT 21,88	900	900	1500	2100	1	7.4	1	48412	2	1	98		
OCT 23,88	OCT 22,88	900	900	900	1210	1	2.0	1	48413	2	1	81		
OCT 24,88	OCT 23,88	900	900	2000	100	1	5.0	1	48414	2	1	97		N
OCT 25,88	OCT 24,88	900	900	1020	1300	1	4.8	1	48415	2	1	93		
OCT 26,88	OCT 25,88	900	900	900	1220	1	4.6	1	48416	2	1	93		JHCM
OCT 28,88	OCT 27,88	900	900	2030	2140	1	4.0	2	48418	2	1	122		N
OCT 29,88	OCT 28,88	900	900	2100	2340	2	1.0	2	48419	2	1	112		C
OCT 30,88	OCT 29,88	900	900	2100	2200	2	5.4	2	48420	2	1	82		JHCM
NOV 1,88	OCT 31,88	900	900	****	****	1	0.2	2	48422	2	1	U 343	FJ	
NOV 4,88	NOV 2,88	900	900	2000	2130	1	2.5	1	84957	2	1	130		NZ
NOV 5,88	NOV 4,88	900	900	1500	1530	1	0.2	1	84958	2	1	280		N
NOV 7,88	NOV 6,88	900	900	1500	1530	1	****	1	84961	2	1	****	E	
NOV 9,88	NOV 7,88	900	900	1040	1800	1	6.8	1	84962	2	1	113	Q	Z
NOV 10,88	NOV 9,88	900	900	100	850	1	8.1	2	84986	2	1	83	Q	M
NOV 11,88	NOV 10,88	900	900	1400	1600	1	1.8	2	84987	2	1	149	Q	N
NOV 13,88	NOV 12,88	900	900	100	900	1	8.1	2	84989	2	1	80	Q	
NOV 14,88	NOV 13,88	900	900	900	630	1	4.2	2	84990	2	1	124	Q	N
NOV 15,88	NOV 14,88	900	900	1500	1530	1	****	*	84991	2	1	****	Q	
NOV 17,88	NOV 15,88	900	900	1915	2040	1	0.4	2	40009	2	1	237	Q	NHMZ
NOV 18,88	NOV 17,88	900	900	1800	2000	2	1.4	2	40010	2	1	92	Q	
NOV 20,88	NOV 18,88	900	900	1700	1800	3	0.8	2	40011	2	1	109	Q	HCMZ
NOV 21,88	NOV 20,88	900	900	1840	2200	3	12.0	2	40012	2	1	102	Q	HCM
NOV 27,88	NOV 26,88	900	900	2323	2400	1	0.2	2	42525	2	1	U 296	EK	
NOV 29,88	NOV 27,88	900	900	940	1400	3	2.6	2	42526	2	1	116		Z
DEC 1,88	NOV 29,88	900	900	1030	1210	3	0.8	2	42499	2	1	165		NHZ
DEC 2,88	DEC 1,88	900	900	930	1135	2	0.2	2	42500	2	1	31		
DEC 4,88	DEC 2,88	900	900	1700	1720	4	0.2	2	42501	2	1	171		Z

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05 PAGE : 11

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
SEP 21,88	SEP 20,88	81.0	28.0	******	UG 7.36	******	0.0215	5.45	1.06
SEP 22,88	SEP 21,88	46.0	13.5	******	!IS ******	******	!IS ******	2.05	0.11
SEP 23,88	SEP 22,88	699.0	34.0	4.13	4.41	******	0.1810	2.70	0.58
SEP 27,88	SEP 26,88	46.0	5.0	******	!IS ******	******	!IS ******	0.60	0.13
SEP 28,88	SEP 27,88	713.0	27.0	4.51	4.76	******	0.0454	5.65	0.69
OCT 2,88	OCT 1,88	654.0	D 26.0	B 5.33	B 7.22	******	D 0.0353	2.90	0.35
OCT 3,88	OCT 2,88	355.0	6.5	4.88	B 7.09	******	0.0278	1.30	LG 0.06
OCT 5,88	OCT 4,88	958.0	10.0	4.60	4.71	******	0.0422	D 1.00	0.34
OCT 8,88	OCT 7,88	358.0	6.0	UG 5.45	UG 6.77	******	0.0196	1.55	0.32
OCT 11,88	OCT 10,88	588.0	16.5	4.60	4.64	******	0.0526	D 3.10	0.55
OCT 12,88	OCT 11,88	******	******	******	******	******	******	******	******
OCT 17,88	OCT 16,88	86.0	43.0	******	4.18	******	D 0.0967	4.85	1.06
OCT 18,88	OCT 17,88	418.0	23.5	4.38	4.32	******	0.0716	1.85	<T 0.02
OCT 22,88	OCT 21,88	468.0	39.5	4.17	4.11	******	0.1040	1.90	1.04
OCT 23,88	OCT 22,88	104.0	8.0	4.89	4.75	******	0.0377	0.40	0.17
OCT 24,88	OCT 23,88	312.0	29.0	4.27	4.25	******	0.0791	1.30	0.64
OCT 25,88	OCT 24,88	288.0	17.5	4.72	4.67	******	0.0434	1.95	0.46
OCT 26,88	OCT 25,88	276.0	D 15.0	UG 6.87	UG 7.77	******	LG 0.0123	0.85	0.10
OCT 28,88	OCT 27,88	314.0	40.0	4.16	4.14	******	D 0.0979	2.75	0.86
OCT 29,88	OCT 28,88	72.0	24.0	******	B 7.51	******	LG 0.0133	D 2.55	0.20
OCT 30,88	OCT 29,88	287.0	4.0	5.01	4.59	******	0.0448	0.65	0.07
NOV 1,88	OCT 31,88	44.0	74.0	******	4.50	******	0.0590	2.90	!IS ******
NOV 4,88	NOV 2,88	209.0	44.0	******	3.97	******	0.1420	3.80	0.81
NOV 5,88	NOV 4,88	36.0	53.5	******	3.89	******	0.1640	4.70	1.05
NOV 7,88	NOV 6,88	4.0	******	******	******	******	******	******	******
NOV 9,88	NOV 7,88	495.0	16.0	******	4.43	******	0.0634	1.25	0.36
NOV 10,88	NOV 9,88	436.0	23.5	******	4.43	******	0.0689	2.25	0.47
NOV 11,88	NOV 10,88	173.0	9.0	******	D 4.90	******	0.0309	1.45	<T 0.04
NOV 13,88	NOV 12,88	420.0	21.0	******	4.31	******	0.0701	1.55	0.56
NOV 14,88	NOV 13,88	336.0	14.5	******	D 4.47	******	D 0.0546	D 1.30	0.25
NOV 15,88	NOV 14,88	30.0	!IS ******	******	UG 5.74	******	0.0192	!IS ******	!IS ******
NOV 17,88	NOV 15,88	61.0	24.0	******	UG 7.50	******	LG 0.0155	4.25	0.81
NOV 18,88	NOV 17,88	83.0	9.5	******	UG 7.07	******	LG 0.0162	1.75	0.30
NOV 20,88	NOV 18,88	56.0	99.5	******	4.61	******	0.0436	5.15	2.98
NOV 21,88	NOV 20,88	788.0	10.5	******	4.27	******	D 0.0791	0.95	<T 0.04
NOV 27,88	NOV 26,88	38.0	D 79.0	******	3.79	******	0.2270	D 8.60	0.92
NOV 29,88	NOV 27,88	194.0	14.0	******	4.95	******	0.0319	2.15	0.66
DEC 1,88	NOV 29,88	85.0	19.0	******	UG 6.11	******	0.0190	2.80	1.39
DEC 2,88	DEC 1,88	4.0	!IS ******	******	UG 6.58	******	LG 0.0126	!IS ******	!IS ******
DEC 4,88	DEC 2,88	22.0	!IS ******	******	5.05	******	0.0282	!IS ******	!IS ******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
SEP 21,88	SEP 20,88	1.84	0.30	0.190	0.205	0.080	1.360	UG 0.0000
SEP 22,88	SEP 21,88	!IS ******	0.12	!IS ******	!IS ******	!IS ******	0.190	!IS ******
SEP 23,88	SEP 22,88	<T 0.08	0.10	<T 0.015	0.036	0.047	0.356	0.0389
SEP 27,88	SEP 26,88	0.26	0.06	<T 0.015	<T 0.020	0.035	0.170	!IS ******
SEP 28,88	SEP 27,88	1.30	0.14	0.160	0.050	0.030	1.020	0.0174
OCT 2,88	OCT 1,88	D 0.76	0.27	D 0.150	U 2.040	0.080	D 1.320	B 0.0001
OCT 3,88	OCT 2,88	<T 0.06	0.22	<T 0.020	UG 0.355	0.130	D 0.670	B 0.0001
OCT 5,88	OCT 4,88	0.16	<T 0.04	<T 0.010	<T 0.010	<T 0.010	0.196	0.0195
OCT 8,88	OCT 7,88	0.80	<W 0.01	<T 0.010	0.035	0.040	0.250	UG 0.0002
OCT 11,88	OCT 10,88	0.48	0.11	<T 0.005	0.040	<T 0.020	D 0.830	0.0229
OCT 12,88	OCT 11,88	******	******	******	******	******	******	******
OCT 17,88	OCT 16,88	D 1.08	0.17	D 0.120	0.080	D 0.130	0.700	0.0661
OCT 18,88	OCT 17,88	<T 0.10	0.07	<T 0.010	<T 0.015	<T 0.010	D 0.170	0.0479
OCT 22,88	OCT 21,88	0.28	0.15	0.030	<T 0.020	<T 0.015	0.300	0.0776
OCT 23,88	OCT 22,88	<T 0.04	<T 0.02	<W 0.005	<W 0.005	<W 0.005	<T 0.010	0.0178
OCT 24,88	OCT 23,88	<T 0.06	0.12	<W 0.005	<T 0.005	<W 0.005	0.176	0.0562
OCT 25,88	OCT 24,88	0.42	0.08	0.045	0.030	0.125	0.330	0.0214
OCT 26,88	OCT 25,88	2.50	0.22	0.045	<T 0.025	<T 0.010	0.136	UG 0.0000
OCT 28,88	OCT 27,88	0.36	0.22	0.030	0.030	<T 0.015	0.256	0.0724
OCT 29,88	OCT 28,88	8 3.44	0.06	D 0.090	0.045	0.030	0.406	B 0.0000
OCT 30,88	OCT 29,88	0.12	<T 0.02	<T 0.005	<T 0.010	<T 0.005	0.070	0.0257
NOV 1,88	OCT 31,88	2.78	0.83	0.305	0.195	UG 0.325	0.196	0.0316
NOV 4,88	NOV 2,88	0.22	0.22	0.030	0.030	0.035	0.310	0.1072
NOV 5,88	NOV 4,88	!IS ******	0.54	!IS ******	!IS ******	!IS ******	LG 0.006	0.1288
NOV 7,88	NOV 6,88	******	******	******	******	******	******	******
NOV 9,88	NOV 7,88	<T 0.06	0.09	<W 0.005	<T 0.005	<T 0.010	0.186	0.0372
NOV 10,88	NOV 9,88	0.12	0.21	<T 0.025	<T 0.025	0.115	0.196	0.0372
NOV 11,88	NOV 10,88	0.22	0.06	<T 0.020	<T 0.005	<T 0.015	0.070	D 0.0126
NOV 13,88	NOV 12,88	<T 0.06	0.09	<T 0.010	<T 0.010	0.025	D 0.180	0.0490
NOV 14,88	NOV 13,88	<W 0.02	<T 0.05	<W 0.005	<T 0.005	<T 0.010	0.136	D 0.0339
NOV 15,88	NOV 14,88	0.88	!IS ******	0.070	0.040	0.100	0.186	UG 0.0018
NOV 17,88	NOV 15,88	1.82	0.23	0.140	0.105	0.100	0.266	UG 0.0000
NOV 18,88	NOV 17,88	1.22	0.12	0.100	0.025	0.040	0.336	UG 0.0001
NOV 20,88	NOV 18,88	0.54	0.40	0.050	0.065	0.115	0.526	0.0245
NOV 21,88	NOV 20,88	<T 0.08	<T 0.05	<T 0.005	<T 0.010	<T 0.015	0.040	0.0537
NOV 27,88	NOV 26,88	D 0.52	D 0.98	D 0.070	0.055	0.325	!IS ******	0.1622
NOV 29,88	NOV 27,88	0.80	0.11	<T 0.020	<T 0.020	0.030	0.578	0.0112
DEC 1,88	NOV 29,88	2.52	<W 0.01	0.105	0.035	0.100	0.430	UG 0.0008
DEC 2,88	DEC 1,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	<T 0.020	UG 0.0003
DEC 4,88	DEC 2,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	0.336	0.0089

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES		SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
DEC 5,88	DEC 4,88	900	900	930	1500	2	2.8	2	42502	2	1		70		
DEC 9,88	DEC 8,88	900	900	900	1000	2	2.5	2	42494	2	1		71		
DEC 10,88	DEC 9,88	900	900	630	900	2	0.5	2	42495	2	1		68		
DEC 13,88	DEC 11,88	900	900	700	1000	2	1.6	2	42497	2	1		38		Z
DEC 14,88	DEC 13,88	900	900	908	600	2	0.8	2	42498	2	1		76		
DEC 15,88	DEC 14,88	900	900	1240	1430	2	4.0	2	40039	2	1	U	78	EF	
DEC 17,88	DEC 15,88	900	900	600	900	2	1.4	2	40040	2	1	U	80	EF	Z
DEC 18,88	DEC 17,88	900	900	900	930	2	0.3	2	40041	2	1	U	109	EF	
DEC 19,88	DEC 18,88	900	900	1900	2350	2	0.8	2	40042	2	1		105	E	N
DEC 21,88	DEC 19,88	900	900	830	1400	1	4.3	2	40043	2	1		120	E	NZ
DEC 23,88	DEC 22,88	900	900	800	900	3	7.2	2	42528	2	1	U	86	EFJ	
DEC 25,88	DEC 24,88	900	900	1330	2300	2	4.5	2	42530	2	1	U	114	EF	
DEC 26,88	DEC 25,88	900	900	1320	2200	2	9.2	2	42531	2	1	U	63	EFJ	
DEC 27,88	DEC 26,88	900	900	500	900	2	7.0	2	42532	2	1	U	22	FEJ	
DEC 28,88	DEC 27,88	900	900	****	****	3	22.6	2	42533	2	1	U	94	EFJ	
DEC 29,88	DEC 28,88	900	900	1100	2100	2	1.2	2	42534	2	1	U	52	EFJ	
DEC 31,88	DEC 30,88	900	900	2130	2230	2	0.3	2	40038	2	1		****	FE	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
DEC 5,88	DEC 4,88	127.0	5.0	******	UG	5.85	******		0.0179	1.15	0.13
DEC 9,88	DEC 8,88	114.0	!IS ******	******	UG	6.65	******	LG	0.0117	!IS ******	!IS ******
DEC 10,88	DEC 9,88	22.0	!IS ******	******		4.93	******		0.0292	!IS ******	!IS ******
DEC 13,88	DEC 11,88	40.0	!IS ******	******		4.48	******		0.0552	!IS ******	!IS ******
DEC 14,88	DEC 13,88	39.0	!IS ******	******		4.05	******		0.1430	!IS ******	!IS ******
DEC 15,88	DEC 14,88	200.0	******	******		******	******		******	******	******
DEC 17,88	DEC 15,88	72.0	******	******		******	******		******	******	******
DEC 18,88	DEC 17,88	21.0	******	******		******	******		******	******	******
DEC 19,88	DEC 18,88	54.0	******	******		******	******		******	******	******
DEC 21,88	DEC 19,88	333.0	******	******		******	******		******	******	******
DEC 23,88	DEC 22,88	399.0	******	******		******	******		******	******	******
DEC 25,88	DEC 24,88	329.0	******	******		******	******		******	******	******
DEC 26,88	DEC 25,88	377.0	******	******		******	******		******	******	******
DEC 27,88	DEC 26,88	100.0	******	******		******	******		******	******	******
DEC 28,88	DEC 27,88	1372.0	******	******		******	******		******	******	******
DEC 29,88	DEC 28,88	40.0	******	******		******	******		******	******	******
DEC 31,88	DEC 30,88	******	******	******		******	******		******	******	******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
DEC 5,88	DEC 4,88	0.48	0.25	0.055	<T 0.020	0.135	0.070	UG 0.0014
DEC 9,88	DEC 8,88	0.62	!IS ******	0.040	<T 0.010	0.080	0.106	UG 0.0002
DEC 10,88	DEC 9,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	0.046	0.0117
DEC 13,88	DEC 11,88	1.62	!IS ******	0.110	0.030	UG 0.950	0.050	0.0331
DEC 14,88	DEC 13,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	0.146	0.0891
DEC 15,88	DEC 14,88	******	******	******	******	******	******	******
DEC 17,88	DEC 15,88	******	******	******	******	******	******	******
DEC 18,88	DEC 17,88	******	******	******	******	******	******	******
DEC 19,88	DEC 18,88	******	******	******	******	******	******	******
DEC 21,88	DEC 19,88	******	******	******	******	******	******	******
DEC 23,88	DEC 22,88	******	******	******	******	******	******	******
DEC 25,88	DEC 24,88	******	******	******	******	******	******	******
DEC 26,88	DEC 25,88	******	******	******	******	******	******	******
DEC 27,88	DEC 26,88	******	******	******	******	******	******	******
DEC 28,88	DEC 27,88	******	******	******	******	******	******	******
DEC 29,88	DEC 28,88	******	******	******	******	******	******	******
DEC 31,88	DEC 30,88	******	******	******	******	******	******	******

PART IV

NORTHEASTERN REGION

DAILY PRECIPITATION CHEMISTRY LISTINGS

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GOWGANDA/DAILY/AEROCHEM

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
APR 14,88	APR 12,88	855	935	2330	935	3	****	2	37537	2	1	7		NHKY2
APR 15,88	APR 14,88	935	925	935	1700	2	****	2	37538	2	1	3		N
APR 16,88	APR 15,88	925	804	****	****	2	20.0	2	37539	2	1	2		N
APR 17,88	APR 16,88	804	949	745	845	1	****	2	37540	2	1	****		
APR 18,88	APR 17,88	949	943	1400	2230	3	18.0	2	37541	2	1	14		NHCH
APR 19,88	APR 18,88	943	901	****	****	2	3.5	*	37542	2	1	1	E	N
APR 24,88	APR 23,88	735	852	1500	2300	3	****	2	37586	2	1	6		N
APR 25,88	APR 24,88	852	900	852	1400	1	7.0	*	37587	2	1	****	E	N
APR 26,88	APR 25,88	900	930	1800	930	2	****	2	37588	2	1	8		N
APR 27,88	APR 26,88	930	930	930	1200	3	52.5	2	37589	2	1	7		NH
APR 29,88	APR 27,88	930	929	1600	800	1	****	2	37590	2	1	****		Y2
MAY 9,88	MAY 8,88	850	1002	700	956	1	****	1	37640	2	1	****		
MAY 10,88	MAY 9,88	1002	938	300	1130	1	4.8	1	37641	2	1	103		
MAY 11,88	MAY 10,88	938	839	938	****	1	0.8	1	37642	2	1	462		N
MAY 13,88	MAY 12,88	850	835	2300	200	1	9.8	1	37644	2	1	127		N
MAY 14,88	MAY 13,88	835	726	910	1244	1	0.8	1	37645	2	1	74		
MAY 15,88	MAY 14,88	726	730	134	730	1	6.1	*	37646	2	1	116	C	
MAY 16,88	MAY 15,88	730	830	740	930	1	8.8	*	37647	2	1	U 96	I	
MAY 17,88	MAY 16,88	830	704	832	835	1	****	*	37648	2	1	****	E	
MAY 20,88	MAY 17,88	704	810	****	149	1	4.0	1	37667	2	1	103		Y3
MAY 21,88	MAY 20,88	810	830	1900	22	1	0.8	1	37668	2	1	111	CD	J
MAY 22,88	MAY 21,88	830	821	228	1239	1	0.4	1	37669	2	1	156	CD	N
MAY 23,88	MAY 22,88	821	854	1520	1540	1	****	1	37670	2	1	****	E	
MAY 25,88	MAY 23,88	854	848	1058	1507	1	0.6	1	37671	2	1	161	CD	NJHCNY
MAY 27,88	MAY 25,88	848	748	1132	1348	1	0.2	1	37696	2	1	****		NY2
MAY 28,88	MAY 27,88	748	830	1330	1943	1	10.2	1	37697	2	1	104		
MAY 30,88	MAY 28,88	830	744	1548	2233	1	0.6	1	37698	2	1	51	C	Y2
MAY 31,88	MAY 30,88	744	840	1602	1603	4	****	1	37699	2	1	****		X
JUN 1,88	MAY 31,88	840	705	2001	2351	1	****	1	37700	2	1	****		X
JUN 2,88	JUN 1,88	720	905	920	1113	1	0.6	1	37727	2	1	57	C	
JUN 5,88	JUN 2,88	905	848	147	157	1	0.4	1	37728	2	1	35	C	NY3
JUN 6,88	JUN 5,88	848	705	700	702	1	****	1	37729	2	1	****	C	X
JUN 7,88	JUN 6,88	705	712	1411	1600	1	****	1	37730	2	1	****	BC	X
JUN 8,88	JUN 7,88	712	705	746	820	1	****	1	37731	2	1	****	C	X
JUN 14,88	JUN 13,88	712	701	1900	600	1	0.5	1	37756	2	1	43		N
JUN 15,88	JUN 14,88	701	705	1722	1853	1	8.8	1	37757	2	1	101		
JUN 16,88	JUN 15,88	705	707	1020	1100	1	0.4	1	37758	2	1	50	A	
JUN 17,88	JUN 16,88	707	727	****	****	4	0.2	1	37759	2	1	****	K	
JUN 20,88	JUN 19,88	740	700	753	1315	1	0.3	1	37761	2	1	83		
JUN 21,88	JUN 20,88	700	705	****	****	1	0.2	1	37762	2	1	****	E	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GOWGANDA/DAILY/AEROCHEM

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
APR 14,88	APR 12,88	964.0	14.5	******		4.53	******	0.0460		1.70		0.18
APR 15,88	APR 14,88	326.0	5.5	******		5.03	******	0.0257		0.50		0.08
APR 16,88	APR 15,88	37.0	8.0	******		4.94	******	0.0303		0.60		0.18
APR 17,88	APR 16,88	34.0	55.0	******	UG	7.64	******	0.0123		4.40		1.17
APR 18,88	APR 17,88	168.0	9.0	******	UG	7.01	******	0.0170		1.20		0.24
APR 19,88	APR 18,88	3.0	******	******		******	******	******		******		******
APR 24,88	APR 23,88	555.0	7.5	4.72		4.83	******	0.0397		0.80		0.10
APR 25,88	APR 24,88	******	******	******		******	******	******		******		******
APR 26,88	APR 25,88	593.0	20.0	4.42		4.56	******	0.0580		2.20		0.44
APR 27,88	APR 26,88	255.0	4.5	5.04		5.15	******	0.0263		0.40	LQ	0.07
APR 29,88	APR 27,88	341.0	25.0	4.21		4.29	******	0.1000		3.40		0.24
MAY 9,88	MAY 8,88	9.0	37.0	******		4.29	******	0.0928		4.70		0.50
MAY 10,88	MAY 9,88	318.0	33.5	4.13		4.22	******	0.0950		2.80		0.47
MAY 11,88	MAY 10,88	237.0	18.0	4.40		4.55	******	0.0542		1.70		0.19
MAY 13,88	MAY 12,88	803.0	14.0	4.47	D	4.63	******	0.0472	D	1.35		0.17
MAY 14,88	MAY 13,88	38.0	5.5	******		5.22	******	0.0254		0.70	<T	0.02
MAY 15,88	MAY 14,88	457.0	16.5	4.41		4.60	******	0.0482		1.75		0.31
MAY 16,88	MAY 15,88	545.0	13.5	4.53		4.75	******	0.0401		1.80		0.22
MAY 17,88	MAY 16,88	2.0	******	******		******	******	******		******		******
MAY 20,88	MAY 17,88	266.0	16.5	4.42		4.51	******	0.0637		1.55		0.23
MAY 21,88	MAY 20,88	57.0	5.5	4.76		5.56	******	0.0262		0.75		0.10
MAY 22,88	MAY 21,88	40.0	!IS ******	******		4.43	******	0.0748	!IS	******	!IS	******
MAY 23,88	MAY 22,88	2.0	******	******		******	******	******		******		******
MAY 25,88	MAY 23,88	62.0	8.5	4.92		6.26	******	0.0230		0.45		0.07
MAY 27,88	MAY 25,88	******	******	******		******	******	******		******		******
MAY 28,88	MAY 27,88	684.0	43.0	4.05		4.11	******	0.1150		5.55		0.38
MAY 30,88	MAY 28,88	20.0	35.5	******	!IS	******	******	!IS ******		4.85		1.07
MAY 31,88	MAY 30,88	2.0	******	******		******	******	******		******		******
JUN 1,88	MAY 31,88	2.0	******	******		******	******	******		******		******
JUN 2,88	JUN 1,88	22.0	18.0	******	!IS	******	******	!IS ******		3.25	<T	0.03
JUN 5,88	JUN 2,88	9.0	4.5	******		6.20	******	0.0163		0.85	<W	0.01
JUN 6,88	JUN 5,88	1.0	******	******		******	******	******		******		******
JUN 7,88	JUN 6,88	3.0	******	******		******	******	******		******		******
JUN 8,88	JUN 7,88	2.0	******	******		******	******	******		******		******
JUN 14,88	JUN 13,88	14.0	69.5	******	!IS	******	******	!IS ******	UG	31.40		1.78
JUN 15,88	JUN 14,88	575.0	18.5	4.59		4.88	******	0.0424		2.90		0.44
JUN 16,88	JUN 15,88	13.0	4.5	******	!IS	******	******	!IS ******		0.95	<T	0.01
JUN 17,88	JUN 16,88	******	******	******		******	******	******		******		******
JUN 20,88	JUN 19,88	16.0	31.5	******		5.05	******	0.0382		5.10		1.26
JUN 21,88	JUN 20,88	******	******	******		******	******	******		******		******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GOWGANDA/DAILY/AEROCHEM

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
APR 14,88	APR 12,88	0.32	<T 0.01	0.035	<T 0.015	<T 0.010	0.180	0.0295
APR 15,88	APR 14,88	<T 0.04	<T 0.03	<T 0.005	<T 0.015	<T 0.020	<T 0.020	0.0093
APR 16,88	APR 15,88	!IS ******	0.08	!IS ******	!IS ******	!IS ******	!IS ******	0.0115
APR 17,88	APR 16,88	!IS ******	0.33	!IS ******	!IS ******	!IS ******	!IS ******	UG 0.0000
APR 18,88	APR 17,88	0.44	0.07	0.090	0.040	0.060	0.310	UG 0.0001
APR 19,88	APR 18,88	******	******	******	******	******	******	******
APR 24,88	APR 23,88	<T 0.04	<T 0.02	<T 0.005	<T 0.015	<T 0.025	0.080	0.0148
APR 25,88	APR 24,88	******	******	******	******	******	******	******
APR 26,88	APR 25,88	0.24	0.05	0.040	0.040	0.075	0.340	0.0275
APR 27,88	APR 26,88	<T 0.04	<T 0.04	<W 0.005	<T 0.005	<T 0.020	<T 0.010	0.0071
APR 29,88	APR 27,88	0.16	0.10	<T 0.020	0.025	0.055	0.260	0.0513
MAY 9,88	MAY 8,88	0.90	0.28	0.170	0.170	0.235	0.280	0.0513
MAY 10,88	MAY 9,88	0.18	0.09	0.030	0.040	0.085	0.240	0.0603
MAY 11,88	MAY 10,88	<T 0.06	<T 0.02	<T 0.005	<T 0.020	<T 0.020	0.130	0.0282
MAY 13,88	MAY 12,88	<W 0.02	<T 0.02	<W 0.005	<T 0.005	<T 0.015	D 0.160	D 0.0234
MAY 14,88	MAY 13,88	!IS ******	0.08	!IS ******	!IS ******	!IS ******	<W 0.005	0.0060
MAY 15,88	MAY 14,88	0.24	<T 0.05	0.035	<T 0.015	0.035	0.220	0.0251
MAY 16,88	MAY 15,88	0.28	<T 0.04	0.040	<T 0.025	0.040	0.200	0.0178
MAY 17,88	MAY 16,88	******	******	******	******	******	******	******
MAY 20,88	MAY 17,88	<T 0.06	0.08	<T 0.010	0.055	0.040	0.075	0.0309
MAY 21,88	MAY 20,88	0.10	0.11	0.025	0.290	0.075	0.100	0.0028
MAY 22,88	MAY 21,88	0.14	!IS ******	0.030	0.175	0.150	0.050	0.0372
MAY 23,88	MAY 22,88	******	******	******	******	******	******	******
MAY 25,88	MAY 23,88	<T 0.08	0.15	0.030	0.350	0.170	0.300	0.0005
MAY 27,88	MAY 25,88	******	******	******	******	******	******	******
MAY 28,88	MAY 27,88	0.42	0.05	0.050	0.065	0.025	0.395	0.0776
MAY 30,88	MAY 28,88	1.24	0.31	0.185	UG 0.745	0.140	0.730	!IS ******
MAY 31,88	MAY 30,88	******	******	******	******	******	******	******
JUN 1,88	MAY 31,88	******	******	******	******	******	******	******
JUN 2,88	JUN 1,88	!IS ******	0.20	!IS ******	!IS ******	!IS ******	0.544	!IS ******
JUN 5,88	JUN 2,88	!IS ******	0.10	!IS ******	!IS ******	!IS ******	<T 0.006	0.0006
JUN 6,88	JUN 5,88	******	******	******	******	******	******	******
JUN 7,88	JUN 6,88	******	******	******	******	******	******	******
JUN 8,88	JUN 7,88	******	******	******	******	******	******	******
JUN 14,88	JUN 13,88	!IS ******	0.66	!IS ******	!IS ******	!IS ******	2.180	!IS ******
JUN 15,88	JUN 14,88	0.50	0.11	0.065	0.105	0.030	0.626	0.0132
JUN 16,88	JUN 15,88	!IS ******	0.16	!IS ******	!IS ******	!IS ******	0.118	!IS ******
JUN 17,88	JUN 16,88	******	******	******	******	******	******	******
JUN 20,88	JUN 19,88	!IS ******	0.35	!IS ******	!IS ******	!IS ******	1.310	0.0089
JUN 21,88	JUN 20,88	******	******	******	******	******	******	******

ONTARIO MINISTRY OF THE ENVIRONMENT
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STATION NAME : GOMGANDA/DAILY/AEROCHEM

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JUN 22,88	JUN 21,88	705	704	1351	1412	1	0.4	1	37763	2	1	50		
JUN 23,88	JUN 22,88	704	736	717	1500	1	3.7	1	37799	2	1	107	CD	HM
JUN 26,88	JUN 25,88	848	853	848	900	1	2.4	1	37805	2	1	68	CD	
JUN 28,88	JUN 27,88	700	705	1720	1910	1	2.2	1	37807	2	1	95		JM
JUN 29,88	JUN 28,88	705	700	1810	1814	1	0.2	1	37808	2	1	78		
JUN 30,88	JUN 29,88	700	720	700	2300	1	3.6	1	37849	2	1	85	BC	C
JUL 1,88	JUN 30,88	720	720	800	2105	1	0.3	1	37850	2	1	U 109	BCJ	
JUL 4,88	JUL 2,88	730	820	839	231	1	1.2	1	37852	2	1	92		JHY2
JUL 10,88	JUL 9,88	900	857	600	730	1	0.1	1	37856	2	1	46	AE	N
JUL 11,88	JUL 10,88	857	700	905	1649	1	5.1	1	37857	2	1	103	CD	
JUL 12,88	JUL 11,88	700	706	1311	1338	1	****	1	37858	2	1	****	E	
JUL 13,88	JUL 12,88	706	705	****	****	4	0.1	1	37859	2	1	****	K	
JUL 14,88	JUL 13,88	705	723	1535	2100	1	2.6	1	37895	2	1	171		N
JUL 15,88	JUL 14,88	723	705	1530	1531	1	****	1	37896	2	1	****	E	
JUL 16,88	JUL 15,88	705	830	****	****	1	5.8	1	37897	2	1	83		
JUL 17,88	JUL 16,88	830	827	****	****	4	0.2	1	37898	2	1	****	KE	
JUL 19,88	JUL 18,88	707	710	****	****	4	****	1	37900	2	1	****	CE	
JUL 20,88	JUL 19,88	711	803	1400	1410	1	0.2	1	37935	2	1	70		
JUL 21,88	JUL 20,88	803	703	1640	300	1	****	1	37936	2	1	****	C	X
JUL 22,88	JUL 21,88	703	800	1400	1500	4	7.8	1	37937	2	1	102	CD	CM
JUL 26,88	JUL 25,88	707	705	1325	1405	1	1.4	1	37940	2	1	81	CD	
JUL 27,88	JUL 26,88	705	818	747	838	1	****	1	37941	2	1	****	EC	
JUL 30,88	JUL 28,88	705	835	306	532	1	****	1	37963	2	1	****	E	Y2
AUG 3,88	AUG 1,88	817	850	702	900	1	3.5	1	37966	2	1	104	CD	JY2
AUG 4,88	AUG 3,88	850	730	1300	1430	1	26.6	1	37993	2	1	109	CD	
AUG 7,88	AUG 6,88	830	915	1845	1915	1	8.6	1	83005	2	1	108	CD	C
AUG 8,88	AUG 7,88	915	713	407	656	1	0.2	1	83006	2	1	23	E	N
AUG 9,88	AUG 8,88	713	719	713	1430	1	2.2	1	83007	2	1	97		
AUG 10,88	AUG 9,88	719	705	1952	100	1	10.8	1	83008	2	1	109		
AUG 13,88	AUG 12,88	808	740	1800	2147	1	10.2	1	83077	2	1	107	CD	
AUG 14,88	AUG 13,88	740	849	2043	547	1	22.2	1	83078	2	1	105	ACD	
AUG 15,88	AUG 14,88	849	701	2002	607	1	4.9	1	83080	2	1	92	CD	M
AUG 16,88	AUG 15,88	704	703	701	744	1	0.2	1	83081	2	1	23	ECD	N
AUG 17,88	AUG 16,88	703	710	2041	453	1	3.0	1	83082	2	1	99	CD	
AUG 18,88	AUG 17,88	710	700	710	1237	1	1.4	1	83083	2	1	98	CD	HM
AUG 19,88	AUG 18,88	700	827	****	****	4	0.2	1	83088	2	1	****	KE	
AUG 20,88	AUG 19,88	827	837	1401	1437	1	5.0	1	83084	2	1	103	CD	
AUG 21,88	AUG 20,88	837	905	1148	1153	1	****	1	83085	2	1	****	E	
AUG 24,88	AUG 23,88	703	702	2200	2300	1	1.0	1	83087	2	1	92	CD	
AUG 25,88	AUG 24,88	702	855	702	1330	1	1.4	1	83137	2	1	103	CD	HM

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STATION NAME : GOMGANDA/DAILY/AEROCHEM

PAGE : 5

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JUN 22,88	JUN 21,88	13.0	14.5	******	4.95	******	0.0380	1.65	0.49
JUN 23,88	JUN 22,88	255.0	10.0	4.52	4.74	******	0.0431	0.70	0.13
JUN 26,88	JUN 25,88	106.0	24.5	4.31	4.40	******	0.0582	2.80	0.33
JUN 28,88	JUN 27,88	135.0	6.5	4.39	4.92	******	0.0275	0.60	<W 0.01
JUN 29,88	JUN 28,88	10.0	2.0	******	5.82	******	0.0143	<T 0.10	<W 0.01
JUN 30,88	JUN 29,88	197.0	4.0	5.17	5.44	******	0.0181	<T 0.25	<T 0.03
JUL 1,88	JUN 30,88	21.0	!IS ******	******	5.94	******	0.0137	!IS ******	!IS ******
JUL 4,88	JUL 2,88	71.0	19.0	4.59	5.70	******	0.0180	2.80	0.42
JUL 10,88	JUL 9,88	3.0	******	******	******	******	******	******	******
JUL 11,88	JUL 10,88	338.0	32.5	4.09	4.21	******	0.0803	3.50	0.40
JUL 12,88	JUL 11,88	1.0	******	******	******	******	******	******	******
JUL 13,88	JUL 12,88	******	******	******	******	******	******	******	******
JUL 14,88	JUL 13,88	286.0	37.0	4.10	4.15	******	0.0927	3.60	0.56
JUL 15,88	JUL 14,88	1.0	******	******	******	******	******	******	******
JUL 16,88	JUL 15,88	309.0	41.5	4.05	4.17	******	0.1020	3.30	0.75
JUL 17,88	JUL 16,88	******	******	******	******	******	******	******	******
JUL 19,88	JUL 18,88	2.0	******	******	******	******	******	******	******
JUL 20,88	JUL 19,88	9.0	9.5	******	4.75	******	0.0612	<T 0.25	<W 0.01
JUL 21,88	JUL 20,88	4.0	******	******	******	******	******	******	******
JUL 22,88	JUL 21,88	511.0	4.5	4.97	5.44	******	0.0248	0.30	<W 0.01
JUL 26,88	JUL 25,88	73.0	15.0	4.43	4.56	******	0.0542	1.00	0.16
JUL 27,88	JUL 26,88	2.0	******	******	******	******	******	******	******
JUL 30,88	JUL 28,88	2.0	******	******	******	******	******	******	******
AUG 3,88	AUG 1,88	234.0	21.0	UG 5.57	UG 6.59	******	0.0291	3.70	0.57
AUG 4,88	AUG 3,88	1873.0	27.0	4.34	4.39	******	0.0661	3.35	0.32
AUG 7,88	AUG 6,88	600.0	3.5	5.12	5.36	******	0.0214	<T 0.15	<T 0.03
AUG 8,88	AUG 7,88	3.0	******	******	******	******	******	******	******
AUG 9,88	AUG 8,88	138.0	25.5	4.52	4.65	******	0.0511	3.35	0.68
AUG 10,88	AUG 9,88	761.0	7.0	4.70	4.86	******	0.0330	0.80	0.05
AUG 13,88	AUG 12,88	706.0	5.0	5.06	5.29	******	0.0302	0.65	0.20
AUG 14,88	AUG 13,88	1497.0	13.0	4.45	4.51	******	0.0570	1.70	0.16
AUG 15,88	AUG 14,88	292.0	3.5	5.03	5.19	******	0.0278	0.41	<T 0.01
AUG 16,88	AUG 15,88	3.0	******	******	******	******	******	******	******
AUG 17,88	AUG 16,88	192.0	13.0	4.39	4.52	******	0.0651	1.20	0.34
AUG 18,88	AUG 17,88	88.0	19.0	4.13	4.34	******	0.0971	1.35	0.40
AUG 19,88	AUG 18,88	******	******	******	******	******	******	******	******
AUG 20,88	AUG 19,88	332.0	2.0	4.61	UCR 4.71	******	UCR 0.0474	<T 0.25	<T 0.01
AUG 21,88	AUG 20,88	2.0	******	******	******	******	******	******	******
AUG 24,88	AUG 23,88	59.0	80.0	******	3.70	******	UG 0.2540	8.20	0.99
AUG 25,88	AUG 24,88	93.0	35.0	4.05	4.26	******	0.1150	4.10	0.22

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JUN 22,88	JUN 21,88	!IS ******	0.22	!IS ******	!IS ******	!IS ******	0.386	0.0112
JUN 23,88	JUN 22,88	<T 0.06	<T 0.04	<T 0.010	<T 0.025	<T 0.010	0.138	0.0182
JUN 26,88	JUN 25,88	0.16	0.10	0.035	0.090	0.040	0.488	0.0398
JUN 28,88	JUN 27,88	<T 0.02	0.06	<T 0.015	0.055	0.030	<T 0.022	0.0120
JUN 29,88	JUN 28,88	!IS ******	0.08	!IS ******	!IS ******	!IS ******	0.016	0.0015
JUN 30,88	JUN 29,88	<T 0.06	0.15	<T 0.015	0.045	0.105	<T 0.016	0.0036
JUL 1,88	JUN 30,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	0.0011
JUL 4,88	JUL 2,88	0.98	0.47	0.250	UG 1.010	0.145	0.280	0.0020
JUL 10,88	JUL 9,88	******	******	******	******	******	******	******
JUL 11,88	JUL 10,88	0.24	0.11	0.045	<T 0.015	0.035	0.476	0.0617
JUL 12,88	JUL 11,88	******	******	******	******	******	******	******
JUL 13,88	JUL 12,88	******	******	******	******	******	******	******
JUL 14,88	JUL 13,88	0.20	0.10	0.035	0.030	<T 0.015	0.518	0.0708
JUL 15,88	JUL 14,88	******	******	******	******	******	******	******
JUL 16,88	JUL 15,88	0.28	0.18	0.040	0.050	0.050	0.460	0.0676
JUL 17,88	JUL 16,88	******	******	******	******	******	******	******
JUL 19,88	JUL 18,88	******	******	******	******	******	******	******
JUL 20,88	JUL 19,88	!IS ******	0.08	!IS ******	!IS ******	!IS ******	<T 0.012	0.0178
JUL 21,88	JUL 20,88	******	******	******	******	******	******	******
JUL 22,88	JUL 21,88	<W 0.02	0.14	<W 0.005	<T 0.005	0.080	<T 0.010	0.0036
JUL 26,88	JUL 25,88	<T 0.06	0.08	<T 0.015	0.050	0.035	<T 0.018	0.0275
JUL 27,88	JUL 26,88	******	******	******	******	******	******	******
JUL 30,88	JUL 28,88	******	******	******	******	******	******	******
AUG 3,88	AUG 1,88	0.66	0.13	0.120	UG 0.860	0.060	1.020	UG 0.0003
AUG 4,88	AUG 3,88	0.36	0.08	0.055	<T 0.010	0.030	0.360	0.0407
AUG 7,88	AUG 6,88	<W 0.02	<T 0.01	<W 0.005	<T 0.010	<W 0.005	<T 0.016	0.0044
AUG 8,88	AUG 7,88	******	******	******	******	******	******	******
AUG 9,88	AUG 8,88	0.34	0.16	0.070	0.035	0.045	0.994	0.0224
AUG 10,88	AUG 9,88	<W 0.02	<T 0.01	<W 0.005	<T 0.005	<T 0.005	0.052	0.0138
AUG 13,88	AUG 12,88	0.16	<T 0.02	0.025	0.030	<T 0.005	0.150	0.0051
AUG 14,88	AUG 13,88	<T 0.02	<T 0.02	<T 0.010	<T 0.005	<T 0.010	0.100	0.0309
AUG 15,88	AUG 14,88	<T 0.04	<W 0.01	<T 0.005	<T 0.020	<T 0.015	0.036	0.0065
AUG 16,88	AUG 15,88	******	******	******	******	******	******	******
AUG 17,88	AUG 16,88	<T 0.10	0.07	<T 0.025	<T 0.020	0.030	0.186	0.0302
AUG 18,88	AUG 17,88	0.16	0.11	0.035	0.045	0.050	0.296	0.0457
AUG 19,88	AUG 18,88	******	******	******	******	******	******	******
AUG 20,88	AUG 19,88	<T 0.02	<T 0.02	<T 0.005	UCR 0.025	<T 0.015	<T 0.016	UCR 0.0195
AUG 21,88	AUG 20,88	******	******	******	******	******	******	******
AUG 24,88	AUG 23,88	0.44	0.30	0.055	0.030	0.120	0.140	0.1995
AUG 25,88	AUG 24,88	<T 0.08	<T 0.02	<T 0.010	<T 0.020	0.070	0.046	0.0550

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
AUG 26,88	AUG 25,88	855	733	1521	1940	1	20.2	1	83138	2	1	103	CD	M
AUG 27,88	AUG 26,88	733	831	918	926	1	1.8	1	83140	2	1	111	CD	M
AUG 28,88	AUG 27,88	831	828	2112	1202	1	1.6	1	83141	2	1	90	CD	HM
AUG 29,88	AUG 28,88	828	700	1601	1710	1	0.4	1	83142	2	1	195	CD	NHM
AUG 30,88	AUG 29,88	700	701	2017	2107	1	0.2	1	83143	2	1	23	ECD	N
AUG 31,88	AUG 30,88	701	701	1134	1327	1	0.7	1	83144	2	1	86	CDQ	HM
SEP 1,88	AUG 31,88	701	836	****	****	4	****	1	83145	2	1	****	ECD	
SEP 2,88	SEP 1,88	836	753	2216	225	1	0.6	1	83146	2	1	U 70	GCD	
SEP 3,88	SEP 2,88	753	837	****	****	4	0.2	1	83147	2	1	****	KE	
SEP 4,88	SEP 3,88	837	753	2004	2452	1	1.0	1	83148	2	1	84	CD	
SEP 5,88	SEP 4,88	753	806	1014	2452	1	16.2	1	83149	2	1	100	CD	
SEP 6,88	SEP 5,88	806	702	927	1856	1	2.0	1	83151	2	1	109	CD	
SEP 7,88	SEP 6,88	702	812	815	835	1	0.8	1	83152	2	1	64	CDQ	
SEP 9,88	SEP 7,88	812	700	2117	111	1	4.2	1	83203	2	1	92		JHY2
SEP 12,88	SEP 11,88	824	814	1526	1544	1	****	1	83206	2	1	****	E	
SEP 13,88	SEP 12,88	814	824	1859	309	1	5.2	1	83207	2	1	95	CD	
SEP 14,88	SEP 13,88	824	814	128	300	1	0.3	1	83208	2	1	77		NM
SEP 15,88	SEP 14,88	814	700	802	1002	1	2.5	1	83244	2	1	87	CD	HM
SEP 16,88	SEP 15,88	700	815	1850	1852	1	0.2	1	83245	2	1	****	KE	
SEP 17,88	SEP 16,88	815	844	49	250	1	0.3	1	83246	2	1	57	CD	N
SEP 18,88	SEP 17,88	844	729	844	1720	1	5.4	1	83247	2	1	104	CD	
SEP 19,88	SEP 18,88	729	819	****	****	4	0.2	1	83248	2	1	****	FEK	
SEP 20,88	SEP 19,88	819	820	1748	2134	1	5.0	1	83249	2	1	99	CD	C
SEP 21,88	SEP 20,88	820	819	1050	2330	1	8.4	1	83250	2	1	93	CD	HCM
SEP 22,88	SEP 21,88	819	821	1303	1413	1	0.2	1	83251	2	1	7	E	N
SEP 23,88	SEP 22,88	821	824	1104	1108	1	5.4	1	83252	2	1	103	CD	C
SEP 24,88	SEP 23,88	824	830	2113	2137	1	0.2	1	83253	2	1	23	E	N
SEP 26,88	SEP 24,88	830	823	1509	1630	1	3.8	1	83254	2	1	99	CDQ	JHCY2
SEP 27,88	SEP 26,88	823	822	1635	2233	1	5.8	1	83255	2	1	100	CDA	C
SEP 28,88	SEP 27,88	822	817	1619	1904	1	0.3	1	83256	2	1	62	C	N
SEP 30,88	SEP 29,88	819	702	1444	2109	1	2.1	1	83294	2	1	106	CDQ	HM
OCT 2,88	OCT 1,88	805	849	823	1923	1	22.1	1	83296	2	1	100	CDQ	NHM
OCT 3,88	OCT 2,88	849	820	1308	1610	3	1.3	1	83298	2	1	94	CD	JHC
OCT 9,88	OCT 7,88	701	837	1405	1437	1	0.2	1	83329	2	1	****	CDE	NY2
OCT 10,88	OCT 9,88	837	825	716	825	1	0.5	1	83330	2	1	68	CD	N
OCT 11,88	OCT 10,88	825	822	825	822	3	14.9	1	83331	2	1	92	BCD	C
OCT 12,88	OCT 11,88	822	829	822	829	2	2.4	1	83332	2	1	39	CD	N
OCT 13,88	OCT 12,88	829	820	829	1853	1	0.6	1	83333	2	1	49	CD	
OCT 14,88	OCT 13,88	820	814	740	743	1	****	1	83368	2	1	****	E	
OCT 17,88	OCT 14,88	814	817	2222	200	1	3.6	1	83369	2	1	98	CD	CY3

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GOWGANDA/DAILY/AEROCHEM

PAGE : 8

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
AUG 26,88	AUG 25,88	1339.0	4.0	4.86	5.14	******	0.0291	0.45	<T 0.03
AUG 27,88	AUG 26,88	129.0	2.5	4.99	5.38	******	0.0233	0.35	<T 0.02
AUG 28,88	AUG 27,88	93.0	35.5	4.14	4.33	******	0.0989	4.20	0.59
AUG 29,88	AUG 28,88	50.0	2.0	******	5.68	******	0.0214	0.30	<T 0.02
AUG 30,88	AUG 29,88	3.0	******	******	******	******	******	******	******
AUG 31,88	AUG 30,88	39.0	3.0	******	5.72	******	0.0249	<T 0.20	<T 0.02
SEP 1,88	AUG 31,88	1.0	******	******	******	******	******	******	******
SEP 2,88	SEP 1,88	27.0	******	******	******	******	******	******	******
SEP 3,88	SEP 2,88	******	******	******	******	******	******	******	******
SEP 4,88	SEP 3,88	54.0	******	LG 3.56	******	******	******	******	******
SEP 5,88	SEP 4,88	1042.0	******	4.25	******	******	******	******	******
SEP 6,88	SEP 5,88	141.0	******	UG 5.25	******	******	******	******	******
SEP 7,88	SEP 6,88	33.0	3.0	******	!IS ******	******	!IS ******	0.40	<T 0.04
SEP 9,88	SEP 7,88	250.0	34.0	4.01	4.88	******	0.0615	7.70	1.09
SEP 12,88	SEP 11,88	1.0	******	******	******	******	******	******	******
SEP 13,88	SEP 12,88	318.0	16.0	4.13	4.46	******	0.0635	2.10	0.19
SEP 14,88	SEP 13,88	15.0	2.0	******	5.35	******	0.0243	<T 0.25	<T 0.03
SEP 15,88	SEP 14,88	140.0	2.5	UG 5.20	5.40	******	0.0265	0.45	<T 0.04
SEP 16,88	SEP 15,88	******	******	******	******	******	******	******	******
SEP 17,88	SEP 16,88	11.0	21.0	******	4.34	******	0.0815	2.85	0.39
SEP 18,88	SEP 17,88	361.0	38.0	3.99	3.98	******	0.1330	3.50	0.75
SEP 19,88	SEP 18,88	******	******	******	******	******	******	******	******
SEP 20,88	SEP 19,88	320.0	45.0	3.88	3.87	******	0.1650	6.15	0.67
SEP 21,88	SEP 20,88	501.0	3.0	4.91	5.09	******	0.0329	0.50	0.09
SEP 22,88	SEP 21,88	1.0	******	******	******	******	******	******	******
SEP 23,88	SEP 22,88	358.0	16.5	4.25	4.30	******	0.0773	2.10	0.31
SEP 24,88	SEP 23,88	3.0	******	******	******	******	******	******	******
SEP 26,88	SEP 24,88	242.0	8.5	5.02	5.73	******	0.0256	2.35	0.43
SEP 27,88	SEP 26,88	375.0	19.0	4.22	4.33	******	0.0788	2.80	0.52
SEP 28,88	SEP 27,88	12.0	10.5	******	!IR ******	******	!IR ******	1.40	0.40
SEP 30,88	SEP 29,88	144.0	> 100.0	LG 3.59	3.55	******	UG 0.2970	9.35	0.82
OCT 2,88	OCT 1,88	1427.0	9.5	4.51	4.58	******	0.0460	1.10	0.10
OCT 3,88	OCT 2,88	79.0	5.0	4.78	5.44	******	0.0245	0.70	<W 0.01
OCT 9,88	OCT 7,88	******	******	******	******	******	******	******	******
OCT 10,88	OCT 9,88	22.0	17.0	******	!IR ******	******	!IR ******	1.50	<T 0.02
OCT 11,88	OCT 10,88	884.0	8.0	4.39	4.68	******	0.0474	1.20	0.19
OCT 12,88	OCT 11,88	61.0	<T 1.0	4.98	!IR ******	******	!IR ******	<T 0.25	<W 0.01
OCT 13,88	OCT 12,88	19.0	1.5	******	!IR ******	******	!IR ******	0.30	<W 0.01
OCT 14,88	OCT 13,88	2.0	******	******	******	******	******	******	******
OCT 17,88	OCT 14,88	227.0	13.0	4.40	4.48	******	0.0610	2.10	0.40

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GONGANDA/DAILY/AEROCHEM

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
AUG 26,88	AUG 25,88	<W 0.02	<W 0.01	<W 0.005	<W 0.005	<T 0.010	<T 0.020	0.0072
AUG 27,88	AUG 26,88	<W 0.02	<W 0.01	<W 0.005	<T 0.010	0.025	0.026	0.0042
AUG 28,88	AUG 27,88	0.36	0.14	0.130	0.025	0.075	0.330	0.0468
AUG 29,88	AUG 28,88	<T 0.10	0.10	<T 0.010	0.055	0.115	0.040	0.0021
AUG 30,88	AUG 29,88	******	******	******	******	******	******	******
AUG 31,88	AUG 30,88	0.10	0.39	<T 0.015	0.070	0.325	0.036	0.0019
SEP 1,88	AUG 31,88	******	******	******	******	******	******	******
SEP 2,88	SEP 1,88	******	******	******	******	******	******	******
SEP 3,88	SEP 2,88	******	******	******	******	******	******	******
SEP 4,88	SEP 3,88	******	******	******	******	******	******	******
SEP 5,88	SEP 4,88	******	******	******	******	******	******	******
SEP 6,88	SEP 5,88	******	******	******	******	******	******	******
SEP 7,88	SEP 6,88	!IS ******	0.06	!IS ******	!IS ******	!IS ******	<W 0.006	!IS ******
SEP 9,88	SEP 7,88	2.12	0.23	0.250	0.335	0.110	1.470	0.0132
SEP 12,88	SEP 11,88	******	******	******	******	******	******	******
SEP 13,88	SEP 12,88	0.16	<T 0.04	<T 0.020	0.220	0.040	0.220	0.0347
SEP 14,88	SEP 13,88	<T 0.06	<W 0.01	<T 0.005	<T 0.020	0.040	<T 0.006	0.0045
SEP 15,88	SEP 14,88	<T 0.08	<W 0.01	<T 0.005	0.070	0.095	0.060	0.0040
SEP 16,88	SEP 15,88	******	******	******	******	******	******	******
SEP 17,88	SEP 16,88	0.42	0.16	0.040	0.055	0.205	0.226	0.0457
SEP 18,88	SEP 17,88	0.16	0.10	<T 0.020	0.085	0.040	0.256	0.1047
SEP 19,88	SEP 18,88	******	******	******	******	******	******	******
SEP 20,88	SEP 19,88	0.12	0.12	<T 0.010	<T 0.025	0.065	0.600	0.1349
SEP 21,88	SEP 20,88	<T 0.02	<W 0.01	<T 0.010	<T 0.010	<T 0.010	<W 0.006	0.0081
SEP 22,88	SEP 21,88	******	******	******	******	******	******	******
SEP 23,88	SEP 22,88	<T 0.04	<W 0.01	<W 0.005	<T 0.015	<T 0.020	0.186	0.0501
SEP 24,88	SEP 23,88	******	******	******	******	******	******	******
SEP 26,88	SEP 24,88	0.58	<W 0.01	0.125	0.085	0.195	0.470	0.0019
SEP 27,88	SEP 26,88	0.14	0.08	0.030	0.030	0.025	0.460	0.0468
SEP 28,88	SEP 27,88	0.24	0.09	0.040	0.055	0.055	0.236	!IR ******
SEP 30,88	SEP 29,88	0.40	0.21	0.055	0.045	0.040	0.880	0.2818
OCT 2,88	OCT 1,88	<W 0.02	<W 0.01	<W 0.005	<T 0.015	<T 0.015	0.206	0.0263
OCT 3,88	OCT 2,88	0.12	<T 0.04	<T 0.015	0.045	0.075	0.056	0.0036
OCT 9,88	OCT 7,88	******	******	******	******	******	******	******
OCT 10,88	OCT 9,88	0.34	0.18	0.055	0.045	0.045	0.166	!IR ******
OCT 11,88	OCT 10,88	<T 0.02	<W 0.01	<W 0.005	<T 0.010	<T 0.005	0.200	0.0209
OCT 12,88	OCT 11,88	<T 0.08	0.19	<T 0.010	0.045	0.125	0.030	!IR ******
OCT 13,88	OCT 12,88	<T 0.02	0.30	<T 0.020	0.075	0.175	0.116	!IR ******
OCT 14,88	OCT 13,88	******	******	******	******	******	******	******
OCT 17,88	OCT 14,88	0.46	<W 0.01	0.080	0.050	0.030	0.210	0.0331

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GOWGANDA/DAILY/AEROCHEM

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
OCT 18,88	OCT 17,88	817	823	2038	823	3	37.0	1	83371	2	1	103	CD	N
OCT 19,88	OCT 18,88	823	825	823	1015	2	****	1	83372	2	1	****	E	
OCT 20,88	OCT 19,88	825	825	2000	2012	2	0.2	1	83411	2	1	46	CDE	N
OCT 21,88	OCT 20,88	825	820	1340	1653	2	****	1	83412	2	1	****	CDE	
OCT 22,88	OCT 21,88	820	856	1024	2100	1	2.8	1	83413	2	1	100	CD	
OCT 24,88	OCT 22,88	856	825	123	825	3	2.4	1	83414	2	1	134	CD	NY2
OCT 25,88	OCT 24,88	825	823	825	1130	3	6.6	1	83415	2	1	98	CD	M
OCT 26,88	OCT 25,88	823	820	823	842	3	0.6	1	83416	2	1	38	CD	M
OCT 27,88	OCT 26,88	820	825	1716	1722	3	****	1	83427	2	1	****	E	
OCT 28,88	OCT 27,88	825	820	1926	820	3	8.6	1	83428	2	1	103	CD	JHM
OCT 29,88	OCT 28,88	820	842	914	1147	3	0.6	1	83429	2	1	104	CD	
OCT 30,88	OCT 29,88	842	844	2200	418	2	****	1	83430	2	1	****	E	
OCT 31,88	OCT 30,88	844	826	509	510	2	0.2	1	83431	2	1	15	CDE	N
NOV 1,88	OCT 31,88	826	849	1001	850	3	7.2	1	83432	2	1	81	CD	
NOV 2,88	NOV 1,88	849	841	850	1025	3	****	1	83433	2	1	****	CDE	
NOV 4,88	NOV 2,88	841	847	2200	847	1	****	*	83479	2	1	****	JCD	Z
NOV 11,88	NOV 10,88	840	833	840	1635	2	9.6	2	83480	2	1	76	CD	
NOV 13,88	NOV 11,88	833	850	259	850	2	6.7	2	83481	2	1	55	CD	NZ
NOV 14,88	NOV 13,88	850	750	1245	1601	3	4.0	2	83482	2	1	108	CD	
NOV 15,88	NOV 14,88	750	825	825	1217	1	****	2	83483	2	1	****	CD	
NOV 16,88	NOV 15,88	825	700	1608	1805	3	6.4	2	83484	2	1	89	CD	
NOV 17,88	NOV 16,88	700	840	1122	1434	3	1.4	2	83485	2	1	182	CD	N
NOV 18,88	NOV 17,88	840	840	****	****	2	0.4	2	83517	2	1	****	KE	
NOV 20,88	NOV 18,88	840	909	1700	1727	2	1.0	2	83518	2	1	4	E	NZ
NOV 21,88	NOV 20,88	909	817	1438	1539	2	1.2	2	83519	2	1	54	CD	
NOV 24,88	NOV 21,88	817	702	2307	151	2	1.0	2	83520	2	1	87	CD	Z
NOV 27,88	NOV 24,88	702	843	1542	843	1	7.4	2	83579	2	1	107	CD	Z
NOV 28,88	NOV 27,88	843	825	843	825	3	7.6	2	83580	2	1	104	CD	
NOV 29,88	NOV 28,88	825	836	825	230	2	1.9	2	83581	2	1	55	BCD	NJ
NOV 30,88	NOV 29,88	836	824	2217	824	2	4.0	2	83582	2	1	76	CD	
DEC 2,88	NOV 30,88	824	827	837	1133	2	1.6	2	83583	2	1	U 98	CDF	Z
DEC 4,88	DEC 2,88	827	913	951	1900	2	0.7	2	83584	2	1	49	CD	Z
DEC 5,88	DEC 4,88	913	827	913	1438	2	****	2	83585	2	1	****	E	
DEC 6,88	DEC 5,88	827	821	850	923	2	****	2	83586	2	1	****	E	
DEC 7,88	DEC 6,88	821	836	2152	27	4	0.4	2	83587	2	1	105	CD	
DEC 8,88	DEC 7,88	836	845	836	910	2	****	2	83622	2	1	****	EJ	
DEC 9,88	DEC 8,88	845	700	2133	634	2	0.6	2	83623	2	1	U 59	CDJ	
DEC 11,88	DEC 9,88	700	828	1321	1502	2	****	2	83624	2	1	****	CD	Z
DEC 12,88	DEC 11,88	828	824	852	906	2	****	2	83625	2	1	****	EK	
DEC 13,88	DEC 12,88	824	829	320	829	2	1.0	2	83626	2	1	67	CD	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATIGN IN ONTARIO STUDY

STATION NAME : GOWGANDA/DAILY/AEROCHEM

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
OCT 18,88	OCT 17,88	2449.0	3.5	4.70	4.92	******	0.0340	0.55	0.08
OCT 19,88	OCT 18,88	2.0	******	******	******	******	******	******	******
OCT 20,88	OCT 19,88	6.0	******	******	******	******	******	******	******
OCT 21,88	OCT 20,88	4.0	******	******	******	******	******	******	******
OCT 22,88	OCT 21,88	180.0	61.0	3.72	3.81	******	0.1900	1.75	1.88
OCT 24,88	OCT 22,88	207.0	24.5	4.05	4.23	******	0.0837	1.15	0.71
OCT 25,88	OCT 24,88	415.0	14.5	4.29	4.43	******	0.0603	1.40	<T 0.04
OCT 26,88	OCT 25,88	15.0	2.0	******	5.33	******	0.0236	0.35	<W 0.01
OCT 27,88	OCT 26,88	2.0	******	******	******	******	******	******	******
OCT 28,88	OCT 27,88	571.0	11.0	4.00	4.60	******	0.0455	0.80	<W 0.01
OCT 29,88	OCT 28,88	40.0	5.0	******	4.98	******	0.0323	0.45	0.16
OCT 30,88	OCT 29,88	4.0	******	******	******	******	******	******	******
OCT 31,88	OCT 30,88	2.0	******	******	******	******	******	******	******
NOV 1,88	OCT 31,88	378.0	28.0	3.80	4.16	******	0.0947	1.15	0.85
NOV 2,88	NOV 1,88	8.0	******	******	******	******	******	******	******
NOV 4,88	NOV 2,88	16.0	84.5	******	3.81	******	UG 0.2360	8.45	!IS ******
NOV 11,88	NOV 10,88	469.0	5.0	4.78	4.89	******	0.0313	0.55	LG 0.06
NOV 13,88	NOV 11,88	237.0	16.5	4.34	4.42	******	0.0645	1.05	0.44
NOV 14,88	NOV 13,88	278.0	22.5	4.27	4.31	******	0.0778	1.80	0.49
NOV 15,88	NOV 14,88	30.0	13.5	******	3.62	******	UG 0.2780	1.60	0.37
NOV 16,88	NOV 15,88	366.0	25.0	4.18	4.19	******	0.0952	2.80	0.43
NOV 17,88	NOV 16,88	164.0	16.0	4.41	4.47	******	0.0599	2.10	0.24
NOV 18,88	NOV 17,88	******	******	******	******	******	******	******	******
NOV 20,88	NOV 18,88	3.0	******	******	******	******	******	******	******
NOV 21,88	NOV 20,88	42.0	72.0	******	!IS ******	******	!IS ******	5.90	1.83
NOV 24,88	NOV 21,88	56.0	37.0	4.09	!IS ******	******	!IS ******	3.05	1.44
NOV 27,88	NOV 24,88	512.0	47.0	3.97	4.05	******	0.1180	3.55	0.70
NOV 28,88	NOV 27,88	507.0	7.0	4.65	4.83	******	0.0338	0.60	0.15
NOV 29,88	NOV 28,88	68.0	!IS ******	4.95	UG 5.72	******	0.0192	!IR ******	!IR ******
NOV 30,88	NOV 29,88	197.0	20.5	4.28	4.32	******	0.0666	LG 0.15	0.73
DEC 2,88	NOV 30,88	101.0	!IS ******	4.18	4.22	******	0.0842	1.00	0.80
DEC 4,88	DEC 2,88	22.0	!IS ******	******	4.89	******	0.0329	!IS ******	!IS ******
DEC 5,88	DEC 4,88	1.0	******	******	******	******	******	******	******
DEC 6,88	DEC 5,88	1.0	******	******	******	******	******	******	******
DEC 7,88	DEC 6,88	27.0	!IS ******	******	4.79	******	0.0393	!IS ******	!IS ******
DEC 8,88	DEC 7,88	1.0	******	******	******	******	******	******	******
DEC 9,88	DEC 8,88	23.0	!IS ******	******	UG 6.19	******	0.0166	!IS ******	!IS ******
DEC 11,88	DEC 9,88	10.0	!IS ******	******	UG 5.66	******	0.0189	!IS ******	!IS ******
DEC 12,88	DEC 11,88	1.0	******	******	******	******	******	******	******
DEC 13,88	DEC 12,88	43.0	!IS ******	******	4.27	******	0.0670	!IS ******	!IS ******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GOWGANDA/DAILY/AEROCHEM

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
OCT 18,88	OCT 17,88	<W 0.02	<W 0.01	<W 0.005	<W 0.005	<W 0.005	!SM ******	0.0120
OCT 19,88	OCT 18,88	******	******	******	******	******	******	******
OCT 20,88	OCT 19,88	******	******	******	******	******	******	******
OCT 21,88	OCT 20,88	******	******	******	******	******	******	******
OCT 22,88	OCT 21,88	0.20	0.33	<T 0.020	<T 0.010	0.030	0.060	0.1549
OCT 24,88	OCT 22,88	<T 0.02	<W 0.01	<T 0.010	<T 0.015	<T 0.015	0.100	0.0589
OCT 25,88	OCT 24,88	<T 0.02	<W 0.01	<W 0.005	<W 0.005	<W 0.005	0.070	0.0372
OCT 26,88	OCT 25,88	<T 0.04	<T 0.02	<T 0.010	<T 0.020	0.035	<T 0.016	0.0047
OCT 27,88	OCT 26,88	******	******	******	******	******	******	******
OCT 28,88	OCT 27,88	<W 0.02	<W 0.01	<W 0.005	<W 0.005	<W 0.005	0.070	0.0251
OCT 29,88	OCT 28,88	!IS ******	<T 0.02	!IS ******	!IS ******	!IS ******	0.126	0.0105
OCT 30,88	OCT 29,88	******	******	******	******	******	******	******
OCT 31,88	OCT 30,88	******	******	******	******	******	******	******
NOV 1,88	OCT 31,88	<T 0.08	0.10	<T 0.015	<W 0.005	<W 0.005	0.156	0.0692
NOV 2,88	NOV 1,88	******	******	******	******	******	******	******
NOV 4,88	NOV 2,88	!IS ******	0.63	!IS ******	!IS ******	!IS ******	1.050	0.1549
NOV 11,88	NOV 10,88	<W 0.02	<T 0.03	<W 0.005	<W 0.005	<T 0.005	0.030	0.0129
NOV 13,88	NOV 11,88	<T 0.02	0.07	<W 0.005	<T 0.010	<T 0.010	0.150	0.0380
NOV 14,88	NOV 13,88	<T 0.04	0.08	<T 0.005	<T 0.010	<T 0.015	0.250	0.0490
NOV 15,88	NOV 14,88	!IS ******	0.14	!IS ******	!IS ******	!IS ******	0.380	0.2399
NOV 16,88	NOV 15,88	0.26	0.19	<T 0.020	<T 0.025	0.085	0.220	0.0646
NOV 17,88	NOV 16,88	0.28	0.08	<T 0.020	0.025	0.025	0.096	0.0339
NOV 18,88	NOV 17,88	******	******	******	******	******	******	******
NOV 20,88	NOV 18,88	******	******	******	******	******	******	******
NOV 21,88	NOV 20,88	0.12	0.38	<T 0.020	0.075	0.135	0.176	!IS ******
NOV 24,88	NOV 21,88	0.20	0.46	<T 0.020	0.030	0.100	0.610	!IS ******
NOV 27,88	NOV 24,88	0.18	0.20	<T 0.015	0.030	0.060	0.270	0.0891
NOV 28,88	NOV 27,88	<W 0.02	<T 0.05	<W 0.005	<T 0.010	<T 0.010	0.076	0.0148
NOV 29,88	NOV 28,88	<T 0.06	0.31	<T 0.015	0.055	0.105	0.076	UG 0.0019
NOV 30,88	NOV 29,88	<T 0.02	0.10	<W 0.005	<T 0.005	<T 0.015	0.030	0.0479
DEC 2,88	NOV 30,88	<T 0.04	0.17	<T 0.005	<T 0.015	0.040	0.156	0.0603
DEC 4,88	DEC 2,88	0.16	!IS ******	0.035	0.060	0.200	0.310	0.0129
DEC 5,88	DEC 4,88	******	******	******	******	******	******	******
DEC 6,88	DEC 5,88	******	******	******	******	******	******	******
DEC 7,88	DEC 6,88	0.14	!IS ******	<T 0.020	0.050	0.095	0.496	0.0162
DEC 8,88	DEC 7,88	******	******	******	******	******	******	******
DEC 9,88	DEC 8,88	0.32	!IS ******	0.040	0.040	0.270	0.026	UG 0.0006
DEC 11,88	DEC 9,88	0.12	!IS ******	<T 0.020	0.050	0.250	0.026	UG 0.0022
DEC 12,88	DEC 11,88	******	******	******	******	******	******	******
DEC 13,88	DEC 12,88	0.24	!IS ******	0.060	0.035	0.190	0.056	0.0537

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GOWGANDA/DAILY/AEROCHEM

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES		SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
DEC 14,88	DEC 13,88	829	827	829	827	4	0.9	2	83627	2	1		60	CD	
DEC 15,88	DEC 14,88	827	904	827	1401	2	15.0	2	83679	2	1		20	CD	NM
DEC 17,88	DEC 16,88	826	848	230	848	2	0.4	2	83681	2	1	U	97	CDJ	
DEC 18,88	DEC 17,88	848	936	848	1518	2	0.5	2	83682	2	1	U	59	CDFJ	
DEC 20,88	DEC 19,88	826	843	2200	843	2	5.4	2	83684	2	1		104	CD	
DEC 21,88	DEC 20,88	843	839	843	318	2	9.4	2	83685	2	1		93	CD	
DEC 23,88	DEC 21,88	839	811	511	811	2	1.6	2	83686	2	1		61	CD	NZ
DEC 24,88	DEC 23,88	811	846	811	930	2	****	2	83687	2	1		****	JCDE	
DEC 27,88	DEC 25,88	850	817	620	817	2	0.8	2	83689	2	1	U	132	JCD	JZ
DEC 28,86	DEC 27,88	817	708	817	1700	1	3.8	2	83690	2	1	U	50	JF	
DEC 29,88	DEC 28,88	708	857	708	936	4	0.2	2	83691	2	1	U	31	JE	
DEC 30,88	DEC 29,88	857	926	2247	2345	2	1.2	2	83770	2	1		92	CD	
DEC 31,88	DEC 30,88	926	835	926	1350	2	1.4	2	83771	2	1	U	61	JFCD	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GOWGANDA/DAILY/AEROCHEN

PAGE : 14

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM		PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
DEC 14,88	DEC 13,88	35.0	!IS ******		******		4.19	******	0.0827	!IS ******	!IS ******
DEC 15,88	DEC 14,88	201.0	16.5		4.40		4.41	******	0.0504	0.50	0.47
DEC 17,88	DEC 16,88	25.0	!IS ******		******		4.85	******	0.0296	!IS ******	!IS ******
DEC 18,88	DEC 17,88	19.0	!IS ******		******		4.89	******	0.0304	!IS ******	!IS ******
DEC 20,88	DEC 19,88	361.0	25.0		4.33		4.28	******	0.0672	1.25	0.97
DEC 21,88	DEC 20,88	563.0	23.0		4.33		4.27	******	0.0730	1.95	0.42
DEC 23,88	DEC 21,88	63.0	!IS ******		4.67		4.59	******	0.0431	!IS ******	!IS ******
DEC 24,88	DEC 23,88	5.0	******		******		******	******	******	******	******
DEC 27,88	DEC 25,88	68.0	!IS ******	UG	5.07	UG	5.61	******	0.0188	!IS ******	!IS ******
DEC 28,88	DEC 27,88	124.0	7.5		4.71		4.68	******	0.0343	0.85	0.11
DEC 29,88	DEC 28,88	4.0	******		******		******	******	******	******	******
DEC 30,88	DEC 29,88	71.0	8.0		4.29		4.72	******	0.0391	0.30	0.38
DEC 31,88	DEC 30,88	55.0	22.0		3.95		4.32	******	0.0810	0.65	1.00

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GOWGANDA/DAILY/AEROCHEM

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
DEC 14,88	DEC 13,88	0.22	!IS ******	0.030	<W 0.005	0.540	0.196	0.0646
DEC 15,88	DEC 14,88	<T 0.04	<W 0.01	<T 0.010	<T 0.015	0.070	0.116	0.0389
DEC 17,88	DEC 16,88	0.10	!IS ******	<T 0.010	0.040	0.105	<T 0.020	0.0141
DEC 18,88	DEC 17,88	0.12	!IS ******	<T 0.010	0.085	0.215	<T 0.020	0.0129
DEC 20,88	DEC 19,88	0.38	0.23	0.050	0.025	0.100	0.410	0.0525
DEC 21,88	DEC 20,88	0.12	0.17	<T 0.010	0.030	0.065	0.306	0.0537
DEC 23,88	DEC 21,88	0.14	!IS ******	<T 0.020	0.030	0.105	0.090	0.0257
DEC 24,88	DEC 23,88	******	******	******	******	******	******	******
DEC 27,88	DEC 25,88	0.14	!IS ******	<T 0.010	<T 0.015	0.135	<T 0.016	UG 0.0025
DEC 28,88	DEC 27,88	0.10	0.11	<T 0.005	<T 0.010	0.060	0.036	0.0209
DEC 29,88	DEC 28,88	******	******	******	******	******	******	******
DEC 30,88	DEC 29,88	0.14	0.18	<T 0.005	<T 0.010	0.095	<W 0.002	0.0191
DEC 31,88	DEC 30,88	0.50	0.35	0.030	0.060	0.110	!IS ******	0.0479

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : HIGH FALLS/DAILY/AEROCHEM

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES		SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
APR 14,88	APR 12,88	1545	600	****	****	1	6.2	1	37528	2	1		114		Y2
APR 15,88	APR 14,88	600	615	****	****	3	5.0	1	37529	2	1		89		
APR 16,88	APR 15,88	615	900	****	****	3	1.0	2	37530	2	1	U	1	G	X
APR 17,88	APR 16,88	900	1000	****	****	3	2.0	2	37531	2	1		81		
APR 18,88	APR 17,88	1000	630	****	****	3	5.2	2	37532	2	1		62		
APR 19,88	APR 18,88	630	620	****	****	2	4.6	2	37533	2	1		11		N
APR 21,88	APR 19,88	620	630	****	****	3	0.1	2	37576	2	1		****	E	NY2
APR 24,88	APR 22,88	630	1030	****	****	3	12.4	2	37578	2	1		****	FE	Y2
APR 27,88	APR 25,88	1030	630	****	****	3	0.1	2	37580	2	1	U	4633	CFKE	Y2
APR 28,88	APR 27,88	630	941	151	732	3	0.1	2	37581	2	1	U	514	F	
APR 29,88	APR 28,88	941	854	1554	2214	1	0.1	2	37582	2	1	U	249	F	
MAY 9,88	MAY 7,88	1000	630	400	630	1	0.1	2	37629	2	1		686		NY2
MAY 10,88	MAY 9,88	630	630	122	618	1	8.6	2	37630	2	1	U	100	P	
MAY 11,88	MAY 10,88	630	645	635	1032	1	7.8	2	37631	2	1	U	91	P	
MAY 12,88	MAY 11,88	645	630	2205	2248	1	0.8	1	37632	2	1		7	E	N
MAY 15,88	MAY 14,88	645	930	430	700	1	5.4	1	37635	2	1		104		J
MAY 16,88	MAY 15,88	930	629	953	1130	1	0.2	1	37636	2	1		62		H
MAY 17,88	MAY 16,88	629	917	1230	1400	1	1.2	1	37637	2	1		96		
MAY 21,88	MAY 20,88	730	1000	800	1200	1	1.8	1	37674	2	1		87	CD	H
MAY 22,88	MAY 21,88	1000	835	1000	1300	1	2.2	1	37675	2	1		97	C	
MAY 23,88	MAY 22,88	835	630	1600	1708	1	0.4	1	37676	2	1		77		
MAY 25,88	MAY 23,88	630	642	2000	2230	1	0.1	1	37693	2	1		109		Y2
MAY 27,88	MAY 25,88	642	640	1230	1400	1	0.2	1	37694	2	1		31	C	XNY2
MAY 31,88	MAY 29,88	1415	714	1500	2330	1	0.1	1	37701	2	1		46		XNY2
JUN 1,88	MAY 31,88	714	657	2000	300	1	5.7	1	37718	2	1		105	Q	JC
JUN 3,88	JUN 1,88	657	637	1151	1339	1	****	1	37719	2	1		****	Q	XY2
JUN 5,88	JUN 3,88	637	855	****	****	1	****	1	37720	2	1		****		XY2
JUN 7,88	JUN 5,88	855	944	1503	1552	1	2.0	1	37721	2	1		81	QC	JHCY2
JUN 16,88	JUN 12,88	945	756	2059	2337	1	0.2	1	37752	2	1		15		XNY4
JUN 20,88	JUN 16,88	756	955	2059	2337	1	1.2	1	37753	2	1		71		JY4
JUN 22,88	JUN 20,88	955	645	200	645	1	0.2	1	37809	2	1		62		Y2
JUN 23,88	JUN 22,88	645	959	645	1200	1	5.4	1	37810	2	1	U	94	GCD	H
JUN 28,88	JUN 26,88	1247	948	2049	2320	1	0.1	1	37816	2	1		31	E	NY2
JUN 30,88	JUN 28,88	948	830	2016	114	1	0.6	1	37866	2	1		78		Y2
JUL 1,88	JUN 30,88	830	1000	1705	1900	1	0.2	1	37867	2	1	U	23	I	X
JUL 11,88	JUL 8,88	905	929	1046	1230	1	6.6	1	37871	2	1		97	BC	Y3
JUL 12,88	JUL 11,88	929	942	1350	1518	1	8.8	1	37872	2	1		99	ACD	J
JUL 14,88	JUL 13,88	842	932	1630	2200	1	7.2	1	37890	2	1		99		
JUL 15,88	JUL 14,88	932	920	****	****	1	0.4	1	37891	2	1	U	7	PE	
JUL 16,88	JUL 15,88	920	935	1221	1424	1	2.0	1	37892	2	1		95		JHM

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : HIGH FALLS/DAILY/AEROCHEM

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
APR 14,88	APR 12,88	456.0	37.0	******		4.28	******		0.0801		5.05		0.93
APR 15,88	APR 14,88	286.0	13.0	******		4.73	******		0.0363		1.15		0.21
APR 16,88	APR 15,88	1.0	******	******		******	******		******		******		******
APR 17,88	APR 16,88	104.0	29.0	******	UG	7.40	******		0.0140		2.70		0.53
APR 18,88	APR 17,88	208.0	26.0	******	UG	7.35	******		0.0166		2.35		0.74
APR 19,88	APR 18,88	34.0	!IS ******	******		5.18	******		0.0236	!IS	******	!IS	******
APR 21,88	APR 19,88	******	******	******		******	******		******		******		******
APR 24,88	APR 22,88	******	******	******		******	******		******		******		******
APR 27,88	APR 25,88	297.0	******	******		******	******		******		******		******
APR 28,88	APR 27,88	33.0	88.0	******		3.76	******	UG	0.2620		5.20		2.35
APR 29,88	APR 28,88	16.0	19.5	******		4.48	******		0.0668		1.95		0.45
MAY 9,88	MAY 7,88	44.0	!IS ******	******		3.63	******	UG	0.3470	!IS	******	!IS	******
MAY 10,88	MAY 9,88	553.0	34.0	4.12		4.24	******		0.0980		3.10		0.62
MAY 11,88	MAY 10,88	455.0	12.5	4.51		4.66	******		0.0549		1.15		0.21
MAY 12,88	MAY 11,88	4.0	******	******		******	******		******		******		******
MAY 15,88	MAY 14,88	362.0	25.0	4.52		5.40	******		0.0375		4.00		0.93
MAY 16,88	MAY 15,88	8.0	9.0	******		5.48	******		0.0248		1.30		0.28
MAY 17,88	MAY 16,88	74.0	20.0	4.49		4.84	******		0.0474		3.40		0.57
MAY 21,88	MAY 20,88	101.0	28.5	4.02		4.33	******		0.0899		7.00	<T	0.03
MAY 22,88	MAY 21,88	138.0	29.5	4.17		4.24	******		0.0888		3.10		0.15
MAY 23,88	MAY 22,88	20.0	!IS ******	******	UG	7.16	******		0.0275	!IS	******	!IS	******
MAY 25,88	MAY 23,88	7.0	4.0	******	!IS	******	******	!IS	******	<T	0.15	<W	0.01
MAY 27,88	MAY 25,88	4.0	******	******		******	******		******		******		******
MAY 31,88	MAY 29,88	3.0	******	******		******	******		******		******		******
JUN 1,88	MAY 31,88	386.0	30.0	4.08		5.02	******		0.0642		4.80		0.30
JUN 3,88	JUN 1,88	3.0	******	******		******	******		******		******		******
JUN 5,88	JUN 3,88	1.0	******	******		******	******		******		******		******
JUN 7,88	JUN 5,88	105.0	9.5	4.23		5.97	******		0.0214		0.95		0.27
JUN 16,88	JUN 12,88	2.0	******	******		******	******		******		******		******
JUN 20,88	JUN 16,88	55.0	50.0	4.17		5.27	******		0.0379		8.75		1.72
JUN 22,88	JUN 20,88	8.0	9.0	******		5.50	******		0.0201		0.85		0.28
JUN 23,88	JUN 22,88	328.0	13.5	4.53		4.77	******		0.0340		1.40		0.30
JUN 28,88	JUN 26,88	2.0	******	******		******	******		******		******		******
JUN 30,88	JUN 28,88	30.0	4.5	******		5.98	******		0.0168		0.40	<W	0.01
JUL 1,88	JUN 30,88	3.0	******	******		******	******		******		******		******
JUL 11,88	JUL 8,88	412.0	34.5	4.11		4.18	******		0.0819		3.65		0.56
JUL 12,88	JUL 11,88	561.0	4.5	4.68		5.81	******		0.0199		0.45		0.08
JUL 14,88	JUL 13,88	458.0	43.5	4.11		4.14	******		0.0922		4.65		0.91
JUL 15,88	JUL 14,88	2.0	******	******		******	******		******		******		******
JUL 16,88	JUL 15,88	123.0	10.5	4.53		5.58	******		0.0205		1.05		0.37

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : HIGH FALLS/DAILY/AEROCHEM

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
APR 14,88	APR 12,88	0.80	0.16	0.135	0.060	0.145	1.060	0.0525
APR 15,88	APR 14,88	<T 0.06	<T 0.03	<T 0.010	<T 0.015	0.025	0.240	0.0186
APR 16,88	APR 15,88	******	******	******	******	******	******	******
APR 17,88	APR 16,88	1.16	0.24	UG 0.200	0.150	0.200	1.960	UG 0.0000
APR 18,88	APR 17,88	UG 1.68	0.12	UG 0.220	0.145	0.140	1.230	UG 0.0000
APR 19,88	APR 18,88	0.40	!IS ******	0.045	0.030	0.080	!IS ******	0.0066
APR 21,88	APR 19,88	******	******	******	******	******	******	******
APR 24,88	APR 22,88	******	******	******	******	******	******	******
APR 27,88	APR 25,88	******	******	******	******	******	******	******
APR 28,88	APR 27,88	0.54	0.57	0.075	0.090	0.130	0.430	0.1738
APR 29,88	APR 28,88	0.40	0.19	0.050	0.140	0.135	<T 0.010	0.0331
MAY 9,88	MAY 7,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	1.525	0.2344
MAY 10,88	MAY 9,88	0.18	0.11	0.030	0.040	<T 0.005	0.400	0.0575
MAY 11,88	MAY 10,88	<T 0.02	<T 0.03	<W 0.005	0.035	0.030	0.125	0.0219
MAY 12,88	MAY 11,88	******	******	******	******	******	******	******
MAY 15,88	MAY 14,88	1.32	0.18	0.170	0.085	0.060	0.925	0.0040
MAY 16,88	MAY 15,88	0.38	0.08	0.045	0.055	0.045	0.200	0.0033
MAY 17,88	MAY 16,88	0.66	0.15	0.115	0.130	0.145	0.675	0.0145
MAY 21,88	MAY 20,88	0.24	0.25	0.130	U 1.750	0.120	0.725	0.0468
MAY 22,88	MAY 21,88	<T 0.10	<T 0.04	<T 0.010	<W 0.005	0.025	<W 0.005	0.0575
MAY 23,88	MAY 22,88	<T 0.06	!IS ******	0.070	UG 0.805	0.105	1.550	UG 0.0001
MAY 25,88	MAY 23,88	0.12	0.12	<T 0.025	0.175	0.100	<T 0.005	!IS ******
MAY 27,88	MAY 25,88	******	******	******	******	******	******	******
MAY 31,88	MAY 29,88	******	******	******	******	******	******	******
JUN 1,88	MAY 31,88	0.44	0.14	0.090	UG 0.550	0.045	0.979	0.0095
JUN 3,88	JUN 1,88	******	******	******	******	******	******	******
JUN 5,88	JUN 3,88	******	******	******	******	******	******	******
JUN 7,88	JUN 5,88	0.34	0.08	0.080	0.205	<T 0.025	0.080	0.0011
JUN 16,88	JUN 12,88	******	******	******	******	******	******	******
JUN 20,88	JUN 16,88	!IS ******	0.61	!IS ******	!IS ******	!IS ******	1.950	0.0054
JUN 22,88	JUN 20,88	!IS ******	0.15	!IS ******	!IS ******	!IS ******	0.218	0.0032
JUN 23,88	JUN 22,88	0.16	0.09	0.025	0.040	0.025	0.424	0.0170
JUN 28,88	JUN 26,88	******	******	******	******	******	******	******
JUN 30,88	JUN 28,88	!IS ******	0.31	!IS ******	!IS ******	!IS ******	<T 0.012	0.0010
JUL 1,88	JUN 30,88	******	******	******	******	******	******	******
JUL 11,88	JUL 8,88	0.50	0.16	0.105	0.040	0.055	0.468	0.0661
JUL 12,88	JUL 11,88	<T 0.06	<T 0.05	<T 0.015	0.095	<T 0.010	!CR ******	0.0015
JUL 14,88	JUL 13,88	0.72	0.19	0.145	0.050	0.035	D 0.736	0.0724
JUL 15,88	JUL 14,88	******	******	******	******	******	******	******
JUL 16,88	JUL 15,88	0.28	0.16	0.040	0.215	0.090	0.564	0.0026

ONTARIO MINISTRY OF THE ENV[illegible]
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : HIGH FALLS/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES		SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JUL 19,88	JUL 17,88	955	900	1511	5570	1	0.2	1	37894	2	1		39	A	Y2
JUL 22,88	JUL 20,88	915	930	1300	1600	1	12.2	1	37922	2	1		100	C	CY2
JUL 23,88	JUL 22,88	930	915	800	945	1	1.4	1	37924	2	1		89		
JUL 24,88	JUL 23,88	915	910	1400	1530	1	2.2	1	37925	2			97		
JUL 25,88	JUL 24,88	910	1000	1600	1745	1	3.2	1	37926	2	1		96		
JUL 26,88	JUL 25,88	1000	1030	1130	1215	1	0.6	1	37927	2	1		13	C	
JUL 29,88	JUL 26,88	1030	815	2121	2318	1	0.2	1	37958	2	1		****	E	NY3
JUL 30,88	JUL 29,88	815	935	544	709	1	0.6	1	37959	2	1		51	C	
AUG 1,88	JUL 30,88	935	1015	****	****	1	0.4	1	37960	2	1		19		NY2
AUG 2,88	AUG 1,88	1015	1000	2200	200	1	1.4	1	37961	2	1		25	C	N
AUG 5,88	AUG 2,88	1000	930	100	600	1	8.0	1	37988	2	1	U	102	ACG	Y3
AUG 6,88	AUG 5,88	930	918	1643	1808	1	3.0	1	37989	2	1		95	ACD	
AUG 7,88	AUG 6,88	918	933	1932	2130	1	0.6	1	37990	2	1		38	C	N
AUG 8,88	AUG 7,88	933	1000	2000	2100	1	0.2	1	37991	2	1		15		XN
AUG 9,88	AUG 8,88	1000	950	****	230	1	12.4	1	37992	2	1		101	CD	
AUG 10,88	AUG 9,88	950	1015	1500	1750	1	1.4	1	83035	2	1		71	CD	
AUG 12,88	AUG 10,88	1015	931	2024	2337	1	0.2	1	83036	2	1		****	KE	Y2
AUG 13,88	AUG 12,88	931	955	2026	30	1	5.0	1	83037	2	1		98	CD	C
AUG 14,88	AUG 13,88	955	1115	1758	406	1	22.0	1	83039	2	1		114	ACD	N
AUG 15,88	AUG 14,88	1115	1045	2206	2219	1	2.0	1	83040	2	1		77	CD	J
AUG 16,88	AUG 15,88	1045	1030	2042	2044	4	0.2	1	83041	2	1		****	KE	
AUG 17,88	AUG 16,88	1030	1015	1907	730	1	5.4	1	83042	2	1		99	CD	M
AUG 18,88	AUG 17,88	1015	857	1156	1209	1	1.2	1	83043	2	1		76	CD	J
AUG 21,88	AUG 19,88	1030	1000	1400	1521	1	3.0	1	83045	2	1	U	85	FCD	Y2
AUG 24,88	AUG 23,88	904	930	1500	****	1	7.0	1	83153	2	1		90	CD	
AUG 25,88	AUG 24,88	930	947	900	947	1	2.0	1	83154	2	1		76	CD	
AUG 26,88	AUG 25,88	947	1000	947	1230	1	5.8	1	83155	2	1		90	ACD	M
AUG 27,88	AUG 26,88	1000	1015	1400	1405	1	0.2	1	83156	2	1		****	K	
AUG 28,88	AUG 27,88	1015	915	1915	2130	1	4.4	1	83157	2	1		96	CD	
AUG 30,88	AUG 28,88	[illegible]	1000	1500	1900	1	0.3	1	83158	2	1		62	CD	Y2
AUG 31,88	AUG 30,88	1000	945	1328	1505	1	2.0	1	83159	2	1		73	CD	HM
SEP 2,88	AUG 31,88	945	1004	1509	2102	1	0.2	2	83160	2	1	U	7	K	Y2
SEP 4,88	SEP 2,88	1004	1000	1932	18	1	2.4	1	83161	2	1		99	CD	Y2
SEP 5,88	SEP 5,88	1000	1007	2100	2233	1	6.2	1	83162	2	1		100	CD	Z
SEP 6,88	SEP 5,88	1007	1007	1017	1246	1	0.2	1	83163	2	1		124		N
SEP 7,88	SEP 6,88	1007	915	1253	1445	1	2.4	1	83198	2	1		112	ACD	JC
SEP 9,88	SEP 7,88	951	1025	2253	328	1	1.0	1	83199	2	1		76	CD	Y2
SEP 13,88	SEP 11,88	1010	840	1504	2317	1	37.0	1	83201	2	1		105		NJY2
SEP 14,88	SEP 13,88	840	928	1225	350	1	0.4	1	83231	2	1		77	BCD	N
SEP 15,88	SEP 14,88	928	1040	1457	1515	1	0.2	1	83232	2	1		15		N

ONTARIO MINISTRY OF THE ENVIRONMENT
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APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : HIGH FALLS/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO [illegible] MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JUL 19,88	JUL 17,88	5.0	4.5	******	5.27	******	0.0200	0.30	0.10
JUL 22,88	JUL 20,88	789.0	9.5	4.71	4.90	******	0.0320	0.70	0.15
JUL 23,88	JUL 22,88	80.0	15.5	4.52	4.60	******	0.0510	1.50	0.11
JUL 24,88	JUL 23,88	137.0	21.0	4.35	4.44	******	0.0672	1.70	0.18
JUL 25,88	JUL 24,88	203.0	20.5	4.22	4.44	******	0.0648	1.30	0.28
JUL 26,88	JUL 25,88	5.0	4.0	****** D	6.02	******	0.0187	<T 0.20	0.06
JUL 29,88	JUL 26,88	******	******	******	******	******	******	******	******
JUL 30,88	JUL 29,88	20.0	14.5	******	4.59	******	0.0473	1.45	0.25
AUG 1,88	JUL 30,88	5.0	******	******	******	******	******	******	******
AUG 2,88	AUG 1,88	23.0	30.0	******	4.63	******	0.0552	3.65	1.11
AUG 5,88	AUG 2,88	527.0	47.0	4.04	4.07	******	0.1170	4.80	0.72
AUG 6,88	AUG 5,88	184.0	> 100.0 LG	3.56 D	3.56	******	B 0.3220	D 14.20	1.23
AUG 7,88	AUG 6,88	15.0	5.0	****** D	5.71	******	0.0192	<T 0.45	<T 0.06
AUG 8,88	AUG 7,88	2.0	******	******	******	******	******	******	******
AUG 9,88	AUG 8,88	809.0	26.0	4.26	4.39	******	0.0620	2.75	0.47
AUG 10,88	AUG 9,88	64.0 D	83.0 D	3.71 D	3.68	******	D 0.2390	D 10.90	0.63
AUG 12,88	AUG 10,88	******	******	******	******	******	******	******	******
AUG 13,88	AUG 12,88	315.0 D	27.0 D	4.32	4.62	******	0.0515	2.15	0.57
AUG 14,88	AUG 13,88	1608.0	48.0	3.96	3.98	******	0.1330	6.30	0.58
AUG 15,88	AUG 14,88	99.0	11.0	4.65	5.15	******	0.0286	D 2.00	0.30
AUG 16,88	AUG 15,88	******	******	******	******	******	******	******	******
AUG 17,88	AUG 16,88	346.0	8.0	4.54	4.85	******	0.0436	0.75	0.27
AUG 18,88	AUG 17,88	59.0 D	2.0 UG	5.44 D	4.66	******	0.0523	D 0.30	<T 0.04
AUG 21,88	AUG 19,88	164.0	6.0	4.44	4.78	******	0.0455	0.95	0.06
AUG 24,88	AUG 23,88	406.0	72.0	3.83	3.87	******	0.1810	6.30	0.66
AUG 25,88	AUG 24,88	98.0	19.0 D	4.46	4.55	******	0.0562	2.25	0.17
AUG 26,88	AUG 25,88	337.0	2.5 D	5.13	5.41	******	D 0.0207	<W 0.05	0.06
AUG 27,88	AUG 26,88	******	******	******	******	******	******	******	******
AUG 28,88	AUG 27,88	272.0	24.0	******	4.46	******	0.0621	1.85	0.60
AUG 30,88	AUG 28,88	12.0	4.0	******	5.33	******	0.0224	0.30	0.06
AUG 31,88	AUG 30,88	94.0	4.0	******	5.24	******	0.0254	<W 0.05	0.07
SEP 2,88	AUG 31,88	1.0	******	******	******	******	******	******	******
SEP 4,88	SEP 2,88	153.0	69.0	3.84	3.95	******	0.1690	6.50	0.90
SEP 5,88	SEP 5,88	398.0	63.5	3.88	3.96	******	0.1610	7.15	0.30
SEP 6,88	SEP 5,88	16.0	2.5	******	5.60	******	0.0199	<W 0.05	<T 0.05
SEP 7,88	SEP 6,88	173.0	3.0	4.62	5.37	******	0.0246	0.55	0.07
SEP 9,88	SEP 7,88	49.0	> 100.0	****** UG	6.85	******	0.0426	UG 27.30	UG 6.30
SEP 13,88	SEP 11,88	2499.0	17.0	3.93	4.39	******	0.0728	2.60	0.23
SEP 14,88	SEP 13,88	20.0	5.0	******	5.02	******	0.0319	0.75	0.10
SEP 15,88	SEP 14,88	2.0	******	******	******	******	******	******	******

ONTARIO MINISTRY OF THE ENVIRONMENT
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APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : HIGH FALLS/DAILY/AEROCHEM PAGE : 6

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JUL 19,88	JUL 17,88	!IS ******	0.08	!IS ******	!IS ******	!IS ******	0.040	0.0054
JUL 22,88	JUL 20,88	<T 0.06	<T 0.05	<T 0.015	<T 0.010	<T 0.005	0.088	0.0126
JUL 23,88	JUL 22,88	0.12	0.11	0.040	0.035	<T 0.025	<T 0.012	0.0251
JUL 24,88	JUL 23,88	<T 0.06	0.10	<T 0.015	0.030	0.030	0.028	0.0363
JUL 25,88	JUL 24,88	<T 0.06	0.11	<T 0.025	0.035	0.030	0.080	0.0363
JUL 26,88	JUL 25,88	!IS ******	0.12	!IS ******	!IS ******	!IS ******	0.028 D	0.0010
JUL 29,88	JUL 26,88	******	******	******	******	******	******	******
JUL 30,88	JUL 29,88	!IS ******	0.12	!IS ******	!IS ******	!IS ******	0.030	0.0257
AUG 1,88	JUL 30,88	******	******	******	******	******	******	******
AUG 2,88	AUG 1,88	!IS ******	0.30	!IS ******	!IS ******	!IS ******	0.612	0.0234
AUG 5,88	AUG 2,88	0.46	0.19	0.070	0.030	0.050	0.414	0.0851
AUG 6,88	AUG 5,88	0.46	D 0.24	0.060	0.040	0.045	D 0.910	D 0.2754
AUG 7,88	AUG 6,88	!IS ******	<T 0.06	!IS ******	!IS ******	!IS ******	0.032	D 0.0019
AUG 8,88	AUG 7,88	******	******	******	******	******	******	******
AUG 9,88	AUG 8,88	0.12	0.07	0.030	0.025	0.025	0.520	0.0407
AUG 10,88	AUG 9,88	!IS ******	0.30	!IS ******	!IS ******	!IS ******	D 0.686	D 0.2089
AUG 12,88	AUG 10,88	******	******	******	******	******	******	******
AUG 13,88	AUG 12,88	0.20	D 0.24	0.035	0.075	0.115	0.576	0.0240
AUG 14,88	AUG 13,88	0.32	0.16	0.050	0.035	0.070	0.556	0.1047
AUG 15,88	AUG 14,88	0.18	0.10	0.035	0.105	0.065	D 0.520	0.0071
AUG 16,88	AUG 15,88	******	******	******	******	******	******	******
AUG 17,88	AUG 16,88	<T 0.04	<W 0.01	<T 0.010	0.065	0.030	0.106	0.0141
AUG 18,88	AUG 17,88	!IS ******	0.12	!IS ******	!IS ******	!IS ******	<W 0.006	D 0.0219
AUG 21,88	AUG 19,88	<T 0.06	<T 0.05	<T 0.010	0.025	<T 0.025	<W 0.006	0.0166
AUG 24,88	AUG 23,88	0.14	0.12	<T 0.020	0.025	<T 0.025	0.316	0.1349
AUG 25,88	AUG 24,88	0.20	0.08	0.040	D 0.180	D 0.260	0.110	0.0282
AUG 26,88	AUG 25,88	<W 0.02	<W 0.01	<W 0.005	<T 0.020	<T 0.015	0.030	0.0039
AUG 27,88	AUG 26,88	******	******	******	******	******	******	******
AUG 28,88	AUG 27,88	0.24	0.10	0.075	0.035	0.025	0.336	0.0347
AUG 30,88	AUG 28,88	<T 0.04	0.09	<T 0.010	0.050	0.065	!IS ******	0.0047
AUG 31,88	AUG 30,88	<T 0.02	0.08	<T 0.010	0.030	0.030	0.060	0.0058
SEP 2,88	AUG 31,88	******	******	******	******	******	******	******
SEP 4,88	SEP 2,88	0.32	0.18	0.050	0.065	0.045	0.600	0.1122
SEP 5,88	SEP 5,88	<T 0.02	0.08	<T 0.015	0.030	<T 0.025	0.676	0.1096
SEP 6,88	SEP 5,88	<W 0.02	0.11	<T 0.005	0.050	0.075	!IS ******	0.0025
SEP 7,88	SEP 6,88	<T 0.04	0.09	<T 0.020	UG 0.400	0.030	0.040	0.0043
SEP 9,88	SEP 7,88	U 11.60	UG 1.51	U 1.600	U 1.820	UG 0.735	UG 4.540	UG 0.0001
SEP 13,88	SEP 11,88	0.10	0.08	<T 0.020	<T 0.020	0.035	0.236	0.0407
SEP 14,88	SEP 13,88	<T 0.10	<T 0.03	0.040	0.095	0.050	<T 0.020	0.0095
SEP 15,88	SEP 14,88	******	******	******	******	******	******	******

ONTARIO MINISTRY OF THE ENVIRONMENT
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APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : HIGH FALLS/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
SEP 17,88	SEP 16,88	1455 1000	2203 2341	1	0.3	1	83234	2	1	280	CD	N
SEP 18,88	SEP 17,88	1000 1112	1030 1300	1	13.4	1	83235	2	1	95	CD	N
SEP 21,88	SEP 20,88	906 905	1026 1555	1	10.2	1	83238	2	1	92	CD	N
SEP 23,88	SEP 22,88	1055 925	2300 130	1	14.8	1	83240	2	1	U 30	FCD	
SEP 27,88	SEP 25,88	900 1115	1800 2131	1	9.4	1	83243	2	1	100	CD	Y2
SEP 30,88	SEP 29,88	945 1025	2043 2101	1	0.2	1	83287	2	1	15	E	N
OCT 1,88	SEP 30,88	1025 945	1821 1926	1	2.2	1	83288	2	1	85		HM
OCT 2,88	OCT 1,88	945 1055	951 2318	1	30.0	1	83289	2	1	81		N
OCT 3,88	OCT 2,88	1055 1120	1106 1218	1	1.8	1	83291	2	1	70		N
OCT 5,88	OCT 4,88	830 1030	1000 1430	3	32.0	1	83321	2	1	88	CD	NC
OCT 8,88	OCT 7,88	945 1000	**** ****	4	0.4	1	83324	2	1	****	EK	
OCT 10,88	OCT 8,88	1000 1030	**** ****	1	8.2	1	83325	2	1	105	CD	HCMY2
OCT 11,88	OCT 10,88	1030 940	2100 2102	1	0.2	1	83326	2	1	23	CD	N
OCT 17,88	OCT 16,88	1025 1030	1700 2215	1	12.8	1	83360	2	1	100	BCD	C
OCT 18,88	OCT 17,88	1030 1100	2030 630	1	36.0	1	83361	2	1	88	CD	NHCM
OCT 21,88	OCT 20,88	845 950	545 950	1	1.0	1	83390	2	1	110	CD	
OCT 22,88	OCT 21,88	950 1030	950 215	1	15.8	1	83391	2	1	105	CD	N
OCT 24,88	OCT 22,88	1030 950	1930 2145	1	2.4	1	83393	2	1	120	CD	Y2
OCT 25,88	OCT 24,88	950 945	1000 945	1	4.0	1	83394	2	1	105	CD	
OCT 26,88	OCT 25,88	945 900	945 1600	1	0.8	1	83421	2	1	64	CD	
OCT 28,88	OCT 26,88	900 1200	1500 2000	1	30.6	1	83422	2	1	80	CDB	MY2
OCT 29,88	OCT 28,88	1200 1145	400 800	1	****	1	83424	2	1	****	CDB	HM
NOV 1,88	OCT 31,88	1115 1015	2000 1015	3	4.4	1	83426	2	1	114	CD	HM
NOV 2,88	NOV 1,88	1015 1000	1015 2000	1	2.2	2	83486	2	1	123	CD	J
NOV 3,88	NOV 2,88	1000 1015	**** ****	1	****	2	83487	2	1	****	CD	
NOV 4,88	NOV 3,88	1015 955	130 955	1	0.6	2	83488	2	1	119	CD	
NOV 5,88	NOV 4,88	955 1115	955 1115	1	19.4	2	83489	2	1	99	CD	N
NOV 6,88	NOV 5,88	1115 1120	1115 1120	1	35.2	2	83492	2	1	62	CD	M
NOV 7,88	NOV 6,88	1120 1000	1120 1500	1	1.4	1	83493	2	1	****	G	
NOV 8,88	NOV 7,88	1000 1040	1600 1800	1	0.4	2	83494	2	1	117	CD	N
NOV 9,88	NOV 8,88	1040 1000	1040 1330	1	0.6	2	83495	2	1	174	CD	NJ
NOV 10,88	NOV 9,88	1000 1120	1120 1120	2	8.2	2	83496	2	1	233		
NOV 12,88	NOV 11,88	1120 1020	**** ****	4	****	2	83498	2	1	****	Q	
NOV 13,88	NOV 12,88	1020 930	1930 930	1	13.4	2	83499	2	1	86	CD	
NOV 14,88	NOV 13,88	930 1010	930 1600	4	0.6	2	83500	2	1	****	E	N
NOV 16,88	NOV 15,88	1030 1030	1200 2200	1	5.4	2	83525	2	1	95	CD	
NOV 17,88	NOV 16,88	1030 1025	1030 1125	2	7.0	2	83526	2	1	80	CDB	
NOV 18,88	NOV 17,88	1025 1035	1025 1200	2	3.6	2	83527	2	1	79	CD	M
NOV 19,88	NOV 18,88	1035 300	1130 1415	2	1.0	2	83528	2	1	U 4	CDP	
NOV 20,88	NOV 19,88	300 1115	1600 600	3	1.8	2	83529	2	1	50	CD	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : HIGH FALLS/DAILY/AEROCHEM

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
SEP 17,88	SEP 16,88	54.0	66.0	3.76	D 3.85	******	0.1860	5.65	1.88
SEP 18,88	SEP 17,88	822.0	40.0	4.03	4.04	******	0.1220	3.60	0.93
SEP 21,88	SEP 20,88	606.0	3.5	4.98	5.14	******	0.0270	0.35	0.07
SEP 23,88	SEP 22,88	288.0	21.0	4.27	4.31	******	0.0759	2.15	0.43
SEP 27,88	SEP 25,88	608.0	31.0	4.40	4.47	******	0.0673	5.10	1.25
SEP 30,88	SEP 29,88	2.0	******	******	******	******	******	******	******
OCT 1,88	SEP 30,88	121.0	89.0	3.66	3.67	******	UG 0.2530	9.30	1.28
OCT 2,88	OCT 1,88	1573.0	15.0	4.41	4.49	******	0.0569	1.75	0.26
OCT 3,88	OCT 2,88	81.0	!IS ******	4.83	!IS ******	******	!IS ******	!IS ******	!IS ******
OCT 5,88	OCT 4,88	1816.0	6.0	4.55	4.67	******	0.0477	0.75	0.08
OCT 8,88	OCT 7,88	******	******	******	******	******	******	******	******
OCT 10,88	OCT 8,88	552.0	6.0	4.60	4.76	******	0.0447	0.95	<T 0.01
OCT 11,88	OCT 10,88	3.0	******	******	******	******	******	******	******
OCT 17,88	OCT 16,88	825.0	12.5	4.29	4.45	******	0.0800	1.75	0.34
OCT 18,88	OCT 17,88	2043.0	5.0	4.60	4.67	******	0.0641	0.65	0.14
OCT 21,88	OCT 20,88	71.0	61.5	3.75	3.84	******	0.1830	2.35	2.00
OCT 22,88	OCT 21,88	1064.0	31.5	3.97	4.14	******	0.1020	1.70	0.83
OCT 24,88	OCT 22,88	185.0	28.0	4.07	4.20	******	0.0916	1.90	0.70
OCT 25,88	OCT 24,88	270.0	14.0	4.33	4.52	******	0.0548	1.00	0.38
OCT 26,88	OCT 25,88	33.0	5.0	******	4.97	******	0.0320	0.60	0.09
OCT 28,88	OCT 26,88	1572.0	22.0	4.20	4.37	******	0.0706	1.65	0.75
OCT 29,88	OCT 28,88	11.0	2.0	******	UG 7.01	******	0.0162	<T 0.25	<W 0.01
NOV 1,88	OCT 31,88	324.0	71.5	3.75	3.83	******	0.1870	4.15	0.40
NOV 2,88	NOV 1,88	174.0	71.5	UG 5.81	3.82	******	0.1940	4.70	2.60
NOV 3,88	NOV 2,88	75.0	15.0	4.42	4.81	******	0.0586	1.60	0.31
NOV 4,88	NOV 3,88	46.0	> 100.0	******	3.61	******	UG 0.3120	9.05	!IS ******
NOV 5,88	NOV 4,88	1239.0	44.0	4.01	4.03	******	0.1240	4.15	0.77
NOV 6,88	NOV 5,88	1407.0	23.5	4.27	4.34	******	0.0733	2.20	0.43
NOV 7,88	NOV 6,88	******	******	******	******	******	******	******	******
NOV 8,88	NOV 7,88	30.0	28.0	******	4.24	******	0.0863	2.30	0.66
NOV 9,88	NOV 8,88	67.0	8.5	4.02	4.86	******	0.0383	0.95	0.20
NOV 10,88	NOV 9,88	1228.0	7.0	4.65	4.77	******	0.0383	0.60	0.24
NOV 12,88	NOV 11,88	51.0	9.0	******	4.66	******	0.0455	0.65	0.26
NOV 13,88	NOV 12,88	745.0	21.0	4.20	4.37	******	0.0715	1.70	0.55
NOV 14,88	NOV 13,88	******	******	******	******	******	******	******	******
NOV 16,88	NOV 15,88	329.0	39.5	******	4.06	******	0.1140	4.40	0.62
NOV 17,88	NOV 16,88	359.0	14.0	******	4.77	******	0.0408	2.35	0.29
NOV 18,88	NOV 17,88	184.0	4.0	******	5.09	******	0.0255	0.50	0.11
NOV 19,88	NOV 18,88	3.0	******	******	******	******	******	******	******
NOV 20,88	NOV 19,88	58.0	67.5	******	3.83	******	0.1890	4.35	1.84

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : HIGH FALLS/DAILY/AEROCHEM

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
SEP 17,88	SEP 16,88	0.40	0.25	0.075	0.100	0.110	D 1.150	D 0.1413
SEP 18,88	SEP 17,88	<T 0.10	0.06	<T 0.025	<T 0.020	<T 0.020	D 0.626	0.0912
SEP 21,88	SEP 20,88	<W 0.02	<W 0.01	<W 0.005	<T 0.015	<T 0.005	0.110	0.0072
SEP 23,88	SEP 22,88	<T 0.06	<T 0.03	<T 0.005	<T 0.020	<T 0.025	0.326	0.0490
SEP 27,88	SEP 25,88	1.26	0.19	0.265	0.085	0.110	0.990	0.0339
SEP 30,88	SEP 29,88	******	******	******	******	******	******	******
OCT 1,88	SEP 30,88	0.40	0.36	0.120	0.075	0.105	1.590	0.2138
OCT 2,88	OCT 1,88	<T 0.02	0.06	<T 0.020	<T 0.020	0.030	0.296	0.0324
OCT 3,88	OCT 2,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******
OCT 5,88	OCT 4,88	<W 0.02	<W 0.01	<W 0.005	<T 0.010	<T 0.020	<T 0.006	0.0214
OCT 8,88	OCT 7,88	******	******	******	******	******	******	******
OCT 10,88	OCT 8,88	<T 0.02	<W 0.01	<T 0.010	<T 0.015	<W 0.005	0.230	0.0174
OCT 11,88	OCT 10,88	******	******	******	******	******	******	******
OCT 17,88	OCT 16,88	0.20	<W 0.01	0.060	0.035	<T 0.020	0.256	0.0355
OCT 18,88	OCT 17,88	<T 0.04	<W 0.01	<T 0.015	<T 0.010	<W 0.005	0.120	0.0214
OCT 21,88	OCT 20,88	0.40	0.39	0.060	0.040	0.060	0.380	0.1445
OCT 22,88	OCT 21,88	<W 0.02	0.07	<W 0.005	<T 0.015	<T 0.010	0.280	0.0724
OCT 24,88	OCT 22,88	<T 0.10	0.14	<T 0.020	0.075	0.105	0.226	0.0631
OCT 25,88	OCT 24,88	<T 0.04	<T 0.01	<T 0.010	0.025	0.035	0.146	0.0302
OCT 26,88	OCT 25,88	0.10	0.07	<T 0.015	0.040	0.090	G.036	0.0107
OCT 28,88	OCT 26,88	0.26	0.06	0.030	0.035	0.030	0.410	0.0427
OCT 29,88	OCT 28,88	<W 0.02	<W 0.01	<T 0.020	UG 0.755	<T 0.020	0.026	UG 0.0001
NOV 1,88	OCT 31,88	0.40	0.56	0.085	0.160	0.240	U 1.220	0.1479
NOV 2,88	NOV 1,88	0.46	0.56	0.075	0.080	0.155	0.836	0.1514
NOV 3,88	NOV 2,88	<T 0.06	0.13	<T 0.015	0.040	0.045	0.160	0.0309
NOV 4,88	NOV 3,88	0.62	0.90	0.080	UG 0.240	0.360	1.910	0.2455
NOV 5,88	NOV 4,88	0.12	0.18	<T 0.015	<T 0.020	0.050	0.460	0.0933
NOV 6,88	NOV 5,88	<T 0.02	0.23	<T 0.015	<T 0.015	0.125	0.270	0.0457
NOV 7,88	NOV 6,88	******	******	******	******	******	******	******
NOV 8,88	NOV 7,88	!IS ******	0.34	!IS ******	!IS ******	!IS ******	0.046	0.0575
NOV 9,88	NOV 8,88	<T 0.08	0.13	<T 0.010	0.045	0.130	0.070	0.0138
NOV 10,88	NOV 9,88	<T 0.04	0.08	<W 0.005	<T 0.015	0.030	0.076	0.0170
NOV 12,88	NOV 11,88	<T 0.06	0.10	<T 0.010	<T 0.025	0.035	<W 0.006	0.0219
NOV 13,88	NOV 12,88	<T 0.06	0.13	<T 0.005	<T 0.020	0.030	0.296	0.0427
NOV 14,88	NOV 13,88	******	******	******	******	******	******	******
NOV 16,88	NOV 15,88	0.30	0.44	0.040	0.070	D 0.205	0.256	0.0871
NOV 17,88	NOV 16,88	0.44	0.11	0.050	0.055	0.045	0.250	0.0170
NOV 18,88	NOV 17,88	<T 0.06	0.13	<T 0.010	<T 0.010	<T 0.025	0.040	0.0081
NOV 19,88	NOV 18,88	******	******	******	******	******	******	******
NOV 20,88	NOV 19,88	0.18	0.63	0.030	UG 0.220	0.355	0.446	0.1479

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : HIGH FALLS/DAILY/AEROCHEM

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 21,88	NOV 20,88	1115	1030	1115	1500	1	1.0	2	83530	2	1	6	CDE	N
NOV 22,88	NOV 21,88	1030	1100	30	1100	3	1.2	2	83531	2	1	****	E	N
NOV 23,88	NOV 22,88	1100	755	1100	1800	2	0.4	2	83565	2	1	****	EK	
NOV 24,88	NOV 23,88	755	915	1630	800	2	3.0	2	83566	2	1	79	CD	
NOV 27,88	NOV 26,88	1005	1025	1130	1025	1	38.2	2	83569	2	1	60	CD	N
NOV 28,88	NOV 27,88	1025	1045	1025	1045	3	7.8	2	83571	2	1	87	CD	
NOV 29,88	NOV 28,88	1045	950	1045	1530	2	0.6	2	83572	2	1	U 38	GCD	
NOV 30,88	NOV 29,88	950	841	1825	845	2	6.8	2	83573	2	1	106	CD	
DEC 1,88	NOV 30,88	841	855	919	1224	2	1.4	2	83574	2	1	****	EK	
DEC 4,88	DEC 3,88	716	858	1133	1443	3	****	2	83577	2	1	****	CDE	
DEC 8,88	DEC 7,88	815	817	125	417	2	0.4	2	83615	2	1	85	CD	
DEC 11,88	DEC 9,88	826	848	2129	30	2	****	2	83617	2	1	****	E	Z
DEC 12,88	DEC 11,88	848	825	710	825	2	****	2	83618	2	1	****	J	
DEC 13,88	DEC 12,88	848	830	844	1618	2	2.8	2	83619	2	1	86	CDQ	
DEC 14,88	DEC 13,88	830	830	836	1512	2	0.2	2	83620	2	1	116	CD	
DEC 15,88	DEC 14,88	830	842	849	2305	2	17.4	2	83621	2	1	75	CD	N
DEC 17,88	DEC 16,88	845	930	845	930	2	0.1	2	83667	2	1	U 233	FJCD	
DEC 18,88	DEC 17,88	930	830	930	830	2	0.6	2	83668	2	1	U 80	JCD	
DEC 19,88	DEC 18,88	830	740	830	940	2	0.8	2	83669	2	1	U 113	FJCD	
DEC 20,88	DEC 19,88	740	845	500	845	3	4.0	2	83670	2	1	U 121	FJCD	
DEC 21,88	DEC 20,88	845	835	845	1830	4	11.7	2	83671	2	1	103	CD	
DEC 23,88	DEC 21,88	835	905	223	905	2	10.6	2	83672	2	1	98	CD	Z
DEC 24,88	DEC 23,88	905	1030	405	2100	3	2.8	2	83673	2	1	126	CD	MM
DEC 25,88	DEC 24,88	1043	953	28	613	2	****	2	83674	2	1	****	EC	
DEC 26,88	DEC 25,88	953	957	953	2230	2	0.5	2	83675	2	1	87	CD	
DEC 27,88	DEC 26,88	957	940	1430	940	2	7.6	2	83676	2	1	94	CD	
DEC 28,88	DEC 27,88	940	830	940	1330	2	7.4	2	83677	2	1	89	CD	M
DEC 29,88	DEC 28,88	830	815	830	1150	2	****	2	83678	2	1	****	E	
DEC 30,88	DEC 29,88	815	840	1900	500	2	0.1	2	83752	2	1	327	CD	
DEC 31,88	DEC 30,88	840	1000	850	1500	2	1.2	2	83753	2	1	98	CD	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : HIGH FALLS/DAILY/AEROCHEM

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 21,88	NOV 20,88	4.0	******	******	******	******	******	******	******
NOV 22,88	NOV 21,88	******	******	******	******	******	******	******	******
NOV 23,88	NOV 22,88	******	******	******	******	******	******	******	******
NOV 24,88	NOV 23,88	153.0	> 100.0	LG 3.63	3.72	******	UG 0.2660	4.20	UG 2.90
NOV 27,88	NOV 26,88	1475.0	39.0	4.09	4.14	******	0.1000	2.85	0.72
NOV 28,88	NOV 27,88	435.0	16.0	4.44	4.57	******	0.0489	1.70	0.23
NOV 29,88	NOV 28,88	15.0	35.0	******	5.14	******	0.0237	!IS ******	!IS ******
NOV 30,88	NOV 29,88	463.0	!IS ******	4.13	4.18	******	0.0865	D 1.15	1.07
DEC 1,88	NOV 30,88	******	******	******	******	******	******	******	******
DEC 4,88	DEC 3,88	5.0	******	******	******	******	******	******	******
DEC 8,88	DEC 7,88	22.0	!IS ******	******	UG 5.76	******	0.0186	!IS ******	!IS ******
DEC 11,88	DEC 9,88	4.0	******	******	******	******	******	******	******
DEC 12,88	DEC 11,88	1.0	******	******	******	******	******	******	******
DEC 13,88	DEC 12,88	155.0	31.1	4.10	4.25	******	0.0806	1.00	1.04
DEC 14,88	DEC 13,88	15.0	!IS ******	******	4.48	******	0.0491	!IS ******	!IS ******
DEC 15,88	DEC 14,88	843.0	27.4	4.18	D 4.20	******	0.0757	1.15	0.76
DEC 17,88	DEC 16,88	15.0	!IS ******	******	4.58	******	0.0419	!IS ******	!IS ******
DEC 18,88	DEC 17,88	31.0	!IS ******	******	4.07	******	0.0952	!IS ******	!IS ******
DEC 19,88	DEC 18,88	58.0	!IS ******	4.11	4.21	******	0.0744	!IS ******	!IS ******
DEC 20,88	DEC 19,88	312.0	31.5	4.20	4.37	******	0.0559	2.25	0.80
DEC 21,88	DEC 20,88	773.0	23.0	4.40	D 4.46	******	0.0453	2.00	0.49
DEC 23,88	DEC 21,88	669.0	15.5	4.41	4.57	******	0.0456	0.80	0.34
DEC 24,88	DEC 23,88	227.0	31.5	4.33	4.28	******	0.0678	2.45	0.91
DEC 25,88	DEC 24,88	3.0	******	******	******	******	******	******	******
DEC 26,88	DEC 25,88	28.0	!IS ******	******	4.89	******	0.0279	!IS ******	!IS ******
DEC 27,88	DEC 26,88	460.0	6.5	4.67	4.85	******	0.0273	0.25	0.15
DEC 28,88	DEC 27,88	425.0	12.0	4.51	4.59	******	0.0378	0.80	0.23
DEC 29,88	DEC 28,88	2.0	******	******	******	******	******	******	******
DEC 30,88	DEC 29,88	21.0	7.5	******	4.80	******	0.0338	0.45	0.37
DEC 31,88	DEC 30,88	202.0	40.0	3.88	4.04	******	0.1360	D 2.30	1.49

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : HIGH FALLS/DAILY/AEROCHEM

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
NOV 21,88	NOV 20,88	******	******	******	******	******	******	******
NOV 22,88	NOV 21,88	******	******	******	******	******	******	******
NOV 23,88	NOV 22,88	******	******	******	******	******	******	******
NOV 24,88	NOV 23,88	0.44	0.43	0.035	0.040	0.050	0.830	0.1905
NOV 27,88	NOV 26,88	<T 0.10	0.23	<T 0.015	0.035	0.090	0.436	0.0724
NOV 28,88	NOV 27,88	<T 0.04	0.07	<T 0.005	0.025	0.045	0.246	0.0269
NOV 29,88	NOV 28,88	<T 0.02	!IS ******	<W 0.005	<T 0.020	0.030	<T 0.016	0.0072
NOV 30,88	NOV 29,88	0.12	0.23	<T 0.015	<T 0.020	0.055	D 0.366	0.0661
DEC 1,88	NOV 30,88	******	******	******	******	******	******	******
DEC 4,88	DEC 3,88	******	******	******	******	******	******	******
DEC 8,88	DEC 7,88	<T 0.04	!IS ******	<T 0.010	0.030	0.130	<T 0.016	UG 0.0017
DEC 11,88	DEC 9,88	******	******	******	******	******	******	******
DEC 12,88	DEC 11,88	******	******	******	******	******	******	******
DEC 13,88	DEC 12,88	0.40	0.40	0.060	0.040	0.095	0.176	0.0562
DEC 14,88	DEC 13,88	0.10	!IS ******	<T 0.015	0.025	0.040	0.070	0.0331
DEC 15,88	DEC 14,88	<T 0.06	0.23	<T 0.010	<T 0.025	0.045	D 0.396	D 0.0631
DEC 17,88	DEC 16,88	0.16	!IS ******	<T 0.020	0.035	0.095	<T 0.016	0.0263
DEC 18,88	DEC 17,88	<T 0.08	!IS ******	<T 0.015	0.030	0.065	<T 0.016	0.0851
DEC 19,88	DEC 18,88	0.12	!IS ******	<T 0.020	0.035	0.180	0.150	0.0617
DEC 20,88	DEC 19,88	0.54	<W 0.01	0.055	0.050	0.105	0.396	0.0427
DEC 21,88	DEC 20,88	0.32	0.14	0.030	0.055	0.075	D 0.386	D 0.0347
DEC 23,88	DEC 21,88	<T 0.06	<W 0.07	<T 0.005	<T 0.015	<T 0.020	0.126	0.0269
DEC 24,88	DEC 23,88	0.36	0.17	0.030	0.050	0.080	0.930	0.0525
DEC 25,88	DEC 24,88	******	******	******	******	******	******	******
DEC 26,88	DEC 25,88	<T 0.06	!IS ******	<T 0.015	0.060	0.080	<T 0.020	0.0129
DEC 27,88	DEC 26,88	<W 0.02	<W 0.01	<W 0.005	<W 0.005	<T 0.020	<T 0.020	0.0141
DEC 28,88	DEC 27,88	<T 0.08	<W 0.01	<T 0.005	<T 0.015	0.030	0.110	0.0257
DEC 29,88	DEC 28,88	******	******	******	******	******	******	******
DEC 30,88	DEC 29,88	0.20	0.43	<T 0.015	0.110	0.240	!IS ******	0.0158
DEC 31,88	DEC 30,88	0.22	0.45	<T 0.015	0.050	0.135	0.394	0.0912

PART V

NORTHWESTERN REGION

DAILY PRECIPITATION CHEMISTRY LISTINGS

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DAWSON/DAILY/AEROCHEM./6131

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 1,88	DEC 31,87	1600 1600	**** ****	2	2.8	2	85105	2	1	43		N
JAN 12,88	JAN 11,88	1600 1600	**** ****	2	7.8	2	85108	2	1	22		N
JAN 21,88	JAN 20,88	1600 1600	**** ****	2	0.1	2	85110	2	1	****	EK	
JAN 22,88	JAN 21,88	1600 1600	**** ****	2	9.0	2	85112	2	1	32		N
JAN 23,88	JAN 22,88	1600 1600	**** ****	2	0.8	2	85114	2	1	25		N
JAN 29,88	JAN 28,88	1600 1600	**** ****	2	5.4	2	85116	2	1	12		N
JAN 31,88	JAN 30,88	1600 1600	**** ****	2	8.6	2	85118	2	1	40		N
FEB 7,88	FEB 6,88	1600 1600	**** ****	2	3.0	2	85120	2	1	56		
FEB 14,88	FEB 13,88	1600 1600	**** ****	2	0.1	2	85122	2	1	****	EK	
FEB 16,88	FEB 15,88	1600 1600	**** ****	2	2.4	2	85124	2	1	40		N
FEB 20,88	FEB 19,88	1600 1600	**** ****	2	0.4	2	85126	2	1	****	EK	
FEB 21,88	FEB 20,88	1600 1600	**** ****	2	0.2	1	85128	2	1	****	EK	
FEB 22,88	FEB 21,88	1600 1600	**** ****	2	3.2	2	85130	2	1	65		
FEB 28,88	FEB 27,88	1600 1600	**** ****	2	0.2	2	85132	2	1	265		N
MAR 1,88	FEB 29,88	1600 1600	**** ****	2	3.4	2	85134	2	1	22		N
MAR 6,88	MAR 5,88	1600 1600	**** ****	2	0.4	2	85136	2	1	245		NHM
MAR 8,88	MAR 7,88	1600 1600	**** ****	2	9.6	2	85138	2	1	54		
MAR 9,88	MAR 8,88	1600 1600	**** ****	2	0.2	2	85140	2	1	****	EK	
MAR 12,88	MAR 11,88	1600 1600	**** ****	2	6.4	2	85142	2	1	24		N
MAR 13,88	MAR 12,88	1600 1600	**** ****	2	0.4	2	85144	2	1	****	EK	
MAR 22,88	MAR 21,88	1600 1600	**** ****	2	0.8	2	85147	2	1	783		N
MAR 26,88	MAR 25,88	1600 1600	**** ****	2	16.8	2	85148	2	1	13	Q	N
MAR 28,88	MAR 27,88	1600 1600	**** ****	3	3.6	2	85150	2	1	155	Q	N
APR 9,88	APR 8,88	1600 1600	**** ****	1	****	*	85152	2	1	****	Q	
APR 16,88	APR 15,88	1600 1600	**** ****	2	0.4	2	85154	2	1	****	EK	
MAY 9,88	MAY 8,88	1600 1600	**** ****	1	16.0	1	85156	2	1	96	Q	H
MAY 10,88	MAY 9,88	1600 1600	**** ****	1	2.0	1	85158	2	1	60	Q	
MAY 11,88	MAY 10,88	1600 1600	**** ****	1	4.0	1	85160	2	1	88	Q	H
MAY 12,88	MAY 11,88	1600 1600	**** ****	1	5.8	1	85162	2	1	107	Q	HCM
MAY 13,88	MAY 12,88	1600 1600	**** ****	1	0.1	1	85164	2	1	****	EK	
MAY 15,88	MAY 14,88	1600 1600	**** ****	1	9.0	1	85166	2	1	61	Q	
MAY 22,88	MAY 21,88	1600 1600	**** ****	1	5.8	1	85168	2	1	****	EG	
MAY 26,88	MAY 25,88	1600 1600	**** ****	1	6.6	1	85170	2	1	U 18	G	HM
MAY 27,88	MAY 26,88	1600 1600	**** ****	1	10.0	1	85172	2	1	U 54	G	
MAY 31,88	MAY 30,88	1600 1600	**** ****	1	4.0	1	85174	2	1	65	Q	
JUN 1,88	MAY 31,88	1600 1600	**** ****	1	16.4	1	85176	2	1	106	Q	H
JUN 8,88	JUN 7,88	1600 1600	**** ****	1	6.0	1	85180	2	1	****	EFK	
JUN 13,88	JUN 12,88	1600 1600	**** ****	1	10.0	1	85182	2	1	93	Q	
JUN 14,88	JUN 13,88	1600 1600	**** ****	1	8.4	1	85184	2	1	104		
JUN 19,88	JUN 18,88	1600 1600	**** ****	1	10.4	1	85186	2	1	86	Q	H

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DAWSON/DAILY/AEROCHEM./6131

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 1,88	DEC 31,87	78.0	34.5	******	4.24	******	0.0877	2.00	0.89
JAN 12,88	JAN 11,88	113.0	5.0	******	5.23	******	0.0283	0.40	0.21
JAN 21,88	JAN 20,88	******	******	******	******	******	******	******	******
JAN 22,88	JAN 21,88	188.0	17.0	******	4.45	******	0.0551	0.75	0.58
JAN 23,88	JAN 22,88	13.0	3.5	******	5.23	******	0.0276	0.35	0.18
JAN 29,88	JAN 28,88	42.0	18.0	******	4.50	******	0.0574	1.25	0.50
JAN 31,88	JAN 30,88	225.0	17.0	******	4.41	******	0.0601	0.85	0.44
FEB 7,88	FEB 6,88	109.0	8.5	******	4.81	******	0.0380	0.65	0.18
FEB 14,88	FEB 13,88	******	******	******	******	******	******	******	******
FEB 16,88	FEB 15,88	63.0	24.5	******	D 4.49	******	D 0.0554	2.20	0.61
FEB 20,88	FEB 19,88	******	******	******	******	******	******	******	******
FEB 21,88	FEB 20,88	******	******	******	******	******	******	******	******
FEB 22,88	FEB 21,88	134.0	14.0	******	4.92	******	0.0325	1.20	0.42
FEB 28,88	FEB 27,88	34.0	7.0	******	5.73	******	0.0214	0.55	0.25
MAR 1,88	FEB 29,88	49.0	16.0	******	UG 6.27	******	0.0249	2.40	0.61
MAR 6,88	MAR 5,88	63.0	23.5	******	UG 6.95	******	0.0199	5.40	0.50
MAR 8,88	MAR 7,88	334.0	22.5	******	4.39	******	0.0629	2.10	0.32
MAR 9,88	MAR 8,88	******	******	******	******	******	******	******	******
MAR 12,88	MAR 11,88	100.0	11.0	******	4.84	******	0.0359	0.55	0.28
MAR 13,88	MAR 12,88	******	******	******	******	******	******	******	******
MAR 22,88	MAR 21,88	402.0	17.5	******	4.59	******	0.0479	1.70	0.28
MAR 26,88	MAR 25,88	148.0	45.0	******	4.52	******	0.0693	UG 7.55	1.16
MAR 28,88	MAR 27,88	359.0	22.0	******	4.39	******	0.0653	2.25	0.24
APR 9,88	APR 8,88	39.0	UG 95.5	******	!IS ******	******	!IS ******	UG 7.50	UG 2.00
APR 16,88	APR 15,88	******	******	******	******	******	******	******	******
MAY 9,88	MAY 8,88	993.0	14.0	******	5.17	******	0.0358	2.95	0.40
MAY 10,88	MAY 9,88	78.0	13.5	******	4.91	******	0.0357	1.70	0.43
MAY 11,88	MAY 10,88	226.0	3.5	******	5.63	******	0.0207	0.35	0.11
MAY 12,88	MAY 11,88	398.0	6.5	******	5.16	******	0.0259	0.65	0.12
MAY 13,88	MAY 12,88	******	******	******	******	******	******	******	******
MAY 15,88	MAY 14,88	356.0	14.5	******	5.49	******	0.0235	2.65	0.37
MAY 22,88	MAY 21,88	******	******	******	******	******	******	******	******
MAY 26,88	MAY 25,88	77.0	12.5	******	UG 7.35	******	0.0153	1.60	0.49
MAY 27,88	MAY 26,88	347.0	8.5	******	5.70	******	0.0202	1.40	0.28
MAY 31,88	MAY 30,88	168.0	22.5	******	5.06	******	0.0349	2.80	0.94
JUN 1,88	MAY 31,88	1119.0	9.0	******	6.16	******	0.0173	1.35	0.29
JUN 8,88	JUN 7,88	******	******	******	******	******	******	******	******
JUN 13,88	JUN 12,88	600.0	25.5	******	5.55	******	0.0254	4.60	0.89
JUN 14,88	JUN 13,88	560.0	12.0	******	5.30	******	0.0241	1.85	0.41
JUN 19,88	JUN 18,88	574.0	12.5	******	5.37	******	0.0239	1.35	0.61

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DAWSON/DAILY/AEROCHEM./6131

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 1,88	DEC 31,87	0.28	UG 0.49	<T 0.025	0.040	0.300	0.355	0.0575
JAN 12,88	JAN 11,88	0.14	0.20	<T 0.020	<T 0.025	0.130	0.070	0.0059
JAN 21,88	JAN 20,88	******	******	******	******	******	******	******
JAN 22,88	JAN 21,88	0.20	0.18	0.030	0.030	0.105	0.100	0.0355
JAN 23,88	JAN 22,88	!IS ******	0.08	!IS ******	!IS ******	!IS ******	0.100	0.0059
JAN 29,88	JAN 28,88	!IS ******	0.20	!IS ******	!IS ******	!IS ******	0.170	0.0316
JAN 31,88	JAN 30,88	<T 0.06	0.10	<T 0.005	<T 0.015	0.040	0.060	0.0389
FEB 7,88	FEB 6,88	<T 0.06	0.22	<T 0.010	<T 0.010	0.135	<T 0.020	0.0155
FEB 14,88	FEB 13,88	******	******	******	******	******	******	******
FEB 16,88	FEB 15,88	0.56	UG 0.49	0.055	0.080	UG 0.370	0.290	D 0.0324
FEB 20,88	FEB 19,88	******	******	******	******	******	******	******
FEB 21,88	FEB 20,88	******	******	******	******	******	******	******
FEB 22,88	FEB 21,88	0.30	0.23	0.045	<T 0.020	0.160	0.330	0.0120
FEB 28,88	FEB 27,88	<T 0.08	0.15	<T 0.015	<T 0.010	0.135	0.340	0.0019
MAR 1,88	FEB 29,88	0.30	0.15	0.035	0.070	0.105	1.080	UG 0.0005
MAR 6,88	MAR 5,88	<W 0.02	0.20	<W 0.005	0.065	UG 1.710	0.850	UG 0.0001
MAR 8,88	MAR 7,88	0.16	0.06	0.010	<T 0.015	0.025	0.270	0.0407
MAR 9,88	MAR 8,88	******	******	******	******	******	******	******
MAR 12,88	MAR 11,88	0.12	0.12	<T 0.015	<T 0.020	0.075	0.040	0.0145
MAR 13,88	MAR 12,88	******	******	******	******	******	******	******
MAR 22,88	MAR 21,88	0.14	0.13	<T 0.015	<T 0.020	0.115	0.290	0.0257
MAR 26,88	MAR 25,88	UG 1.80	0.37	0.190	UG 0.315	UG 0.380	1.320	0.0302
MAR 28,88	MAR 27,88	0.22	<T 0.03	<T 0.020	0.030	0.025	0.142	0.0407
APR 9,88	APR 8,88	!IS ******	0.40	!IS ******	!IS ******	!IS ******	UG 4.130	!IS ******
APR 16,88	APR 15,88	******	******	******	******	******	******	******
MAY 9,88	MAY 8,88	0.86	0.08	0.155	0.115	0.035	0.506	0.0068
MAY 10,88	MAY 9,88	0.14	0.07	0.025	0.070	0.040	0.588	0.0123
MAY 11,88	MAY 10,88	<T 0.06	<W 0.01	<T 0.010	<T 0.010	<T 0.005	0.098	0.0023
MAY 12,88	MAY 11,88	<T 0.06	<T 0.02	<T 0.010	<T 0.020	<T 0.005	0.086	0.0069
MAY 13,88	MAY 12,88	******	******	******	******	******	******	******
MAY 15,88	MAY 14,88	0.48	<T 0.04	0.090	0.065	UG 0.520	0.340	0.0032
MAY 22,88	MAY 21,88	******	******	******	******	******	******	******
MAY 26,88	MAY 25,88	0.58	0.10	0.135	0.095	0.055	0.782	UG 0.0000
MAY 27,88	MAY 26,88	0.26	<T 0.05	0.045	0.040	0.035	0.446	0.0020
MAY 31,88	MAY 30,88	0.98	0.45	0.175	0.100	UG 0.235	0.718	0.0087
JUN 1,88	MAY 31,88	0.30	0.16	0.065	0.065	0.110	0.402	0.0007
JUN 8,88	JUN 7,88	******	******	******	******	******	******	******
JUN 13,88	JUN 12,88	1.26	D 0.16	0.155	0.185	0.050	1.150	0.0028
JUN 14,88	JUN 13,88	0.30	0.06	0.040	0.065	0.025	0.626	0.0050
JUN 19,88	JUN 18,88	0.34	0.11	0.060	0.065	0.050	0.586	0.0043

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DAWSON/DAILY/AEROCHEM./6131

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JUN 22,88	JUN 21,88	1600	1600	****	****	1	1.6	1	85188	2	1	43		N
JUN 24,88	JUN 23,88	1600	1600	****	****	1	5.6	1	85190	2	1	83	Q	H
JUN 25,88	JUN 24,88	1600	1600	****	****	1	2.0	1	85192	2	1	****	EK	
JUL 4,88	JUL 3,88	1600	1600	****	****	1	0.2	1	85194	2	1	****	EK	
JUL 8,88	JUL 7,88	1600	1600	****	****	1	8.2	1	85196	2	1	88	CQ	
JUL 13,88	JUL 12,88	1600	1600	****	****	1	20.8	1	85199	2	1	91		
JUL 16,88	JUL 15,88	1600	1600	****	****	1	9.8	1	85203	2	1	91	CD	
JUL 20,88	JUL 19,88	1600	1600	****	****	1	2.6	1	85205	2	1	4	Q	NHM
JUL 22,88	JUL 21,88	1600	1600	****	****	1	2.0	1	85207	2	1	****	EK	
JUL 23,88	JUL 22,88	1600	1600	****	****	1	4.2	1	85209	2	1	39	D	NH
JUL 29,88	JUL 28,88	1600	1600	****	****	1	27.8	1	85211	2	1	U 6	I	H
JUL 31,88	JUL 30,88	1600	1600	****	****	1	2.6	1	85213	2	1	****	IEKF	
AUG 2,88	AUG 1,88	1600	1600	****	****	1	46.6	1	85215	2	1	101		NCM
AUG 4,88	AUG 3,88	1600	1600	****	****	1	22.4	1	85219	2	1	97	D	N
AUG 5,88	AUG 4,88	1600	1600	****	****	1	14.2	1	85221	2	1	91		NM
AUG 6,88	AUG 5,88	1600	1600	****	****	1	2.0	1	85223	2	1	48	DQ	NHCM
AUG 7,88	AUG 6,88	1600	1600	****	****	1	9.8	1	85225	2	1	93	D	
AUG 8,88	AUG 7,88	1600	1600	****	****	1	3.2	1	85227	2	1	55	CD	H
AUG 14,88	AUG 13,88	1600	1600	****	****	1	25.4	1	85229	2	1	97		N
AUG 17,88	AUG 16,88	1600	1600	****	****	1	20.0	1	85233	2	1	93	C	N
AUG 23,88	AUG 22,88	1600	1600	****	****	1	28.8	1	85235	2	1	101		NH
AUG 24,88	AUG 23,88	1600	1600	****	****	1	1.6	1	85237	2	1	38		N
AUG 25,88	AUG 24,88	1600	1600	****	****	1	4.4	1	85239	2	1	79		HCM
AUG 27,88	AUG 26,88	1600	1600	****	****	1	9.8	1	85241	2	1	91		
AUG 28,88	AUG 27,88	1600	1600	****	****	1	4.4	1	85243	2	1	86		C
AUG 29,88	AUG 28,88	1600	1600	****	****	1	2.4	1	85245	2	1	45		NC
SEP 1,88	AUG 31,88	1600	1600	****	****	1	30.0	1	85247	2	1	U 23	F	
SEP 2,88	SEP 1,88	1600	1600	****	****	1	20.0	1	85251	2	1	****	EKI	
SEP 3,88	SEP 2,88	1600	1600	****	****	1	8.0	1	85249	2	1	U 11	F	HM
SEP 17,88	SEP 16,88	1600	1600	****	****	1	6.4	1	85253	2	1	88	Q	
SEP 19,88	SEP 18,88	1600	1600	****	****	1	19.8	1	85255	2	1	94		N
SEP 22,88	SEP 21,88	1600	1600	****	****	1	3.4	1	85257	2	1	U 40	I	
SEP 24,88	SEP 23,88	1600	1600	****	****	1	1.8	1	85259	2	1	58		
SEP 26,88	SEP 25,88	1600	1600	****	****	1	5.2	1	85261	2	1	60		
SEP 27,88	SEP 26,88	1600	1600	****	****	1	2.0	1	85263	2	1	37		N
SEP 29,88	SEP 28,88	1600	1600	****	****	1	5.0	1	85265	2	1	82		
OCT 3,88	OCT 2,88	1600	1600	****	****	1	6.0	1	85267	2	1	88		H
OCT 4,88	OCT 3,88	1600	1600	****	****	1	0.2	1	85269	2	1	****	EK	
OCT 16,88	OCT 15,88	1600	1600	****	****	1	13.4	2	85273	2	1	85		
OCT 17,88	OCT 16,88	1600	1600	****	****	1	0.2	2	85275	2	1	****	EK	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DAWSON/DAILY/AEROCHEM./6131

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JUN 22,88	JUN 21,88	45.0	10.0	******	5.25	******	0.0240	1.00	0.38
JUN 24,88	JUN 23,88	300.0	19.5	******	5.20	******	0.0303	2.90	0.67
JUN 25,88	JUN 24,88	******	******	******	******	******	******	******	******
JUL 4,88	JUL 3,88	******	******	******	******	******	******	******	******
JUL 8,88	JUL 7,88	465.0	13.5	******	6.76	******	0.0218	1.85	0.38
JUL 13,88	JUL 12,88	1214.0	6.5	******	5.82	******	0.0166	0.85	0.21
JUL 16,88	JUL 15,88	574.0	11.5	******	5.26	******	0.0240	1.50	0.40
JUL 20,88	JUL 19,88	7.0	3.0	******	5.24	******	0.0243	<T 0.20	<T 0.01
JUL 22,88	JUL 21,88	******	******	******	******	******	******	******	******
JUL 23,88	JUL 22,88	105.0	11.0	******	6.31	******	0.0208	1.45	0.57
JUL 29,88	JUL 28,88	124.0	6.0	******	5.59	******	0.0237	0.95	0.19
JUL 31,88	JUL 30,88	******	******	******	******	******	******	******	******
AUG 2,88	AUG 1,88	3030.0	6.0	******	6.43	******	0.0173	0.90	<W 0.01
AUG 4,88	AUG 3,88	1405.0	3.0	******	!SM ******	******	!SM ******	<T 0.20	0.10
AUG 5,88	AUG 4,88	835.0	LQ 1.0	******	5.54	******	0.0236	<W 0.05	<W 0.01
AUG 6,88	AUG 5,88	62.0	4.0	******	5.28	******	0.0285	<T 0.15	<T 0.04
AUG 7,88	AUG 6,88	589.0	7.0	******	5.47	******	0.0223	0.60	0.31
AUG 8,88	AUG 7,88	114.0	23.0	******	D 6.81	******	D 0.0165	3.80	0.71
AUG 14,88	AUG 13,88	1587.0	4.0	******	5.16	******	0.0293	0.50	0.07
AUG 17,88	AUG 16,88	1200.0	8.0	******	5.07	******	0.0329	0.75	0.28
AUG 23,88	AUG 22,88	1880.0	12.0	******	4.87	******	0.0399	1.85	0.17
AUG 24,88	AUG 23,88	40.0	3.0	******	!IS ******	******	!IS ******	<T 0.20	<T 0.04
AUG 25,88	AUG 24,88	225.0	3.0	******	4.53	******	UG 0.0548	<T 0.25	<T 0.04
AUG 27,88	AUG 26,88	572.0	5.0	******	5.25	******	0.0258	0.85	0.09
AUG 28,88	AUG 27,88	244.0	LQ 1.5	******	5.19	******	0.0211	<T 0.20	<T 0.03
AUG 29,88	AUG 28,88	70.0	<T 1.0	******	5.33	******	0.0217	<T 0.15	<T 0.03
SEP 1,88	AUG 31,88	459.0	7.0	******	6.13	******	0.0195	1.35	0.25
SEP 2,88	SEP 1,88	******	******	******	******	******	******	******	******
SEP 3,88	SEP 2,88	57.0	12.0	******	UG 7.33	******	0.0168	2.40	0.27
SEP 17,88	SEP 16,88	365.0	28.0	******	4.26	******	UG 0.0826	3.05	0.47
SEP 19,88	SEP 18,88	1194.0	6.0	******	4.85	******	D 0.0321	0.70	0.15
SEP 22,88	SEP 21,88	88.0	25.0	******	4.85	******	0.0388	3.70	1.08
SEP 24,88	SEP 23,88	67.0	!IS ******	******	!IS ******	******	!IS ******	!IR ******	!IR ******
SEP 26,88	SEP 25,88	200.0	9.5	******	4.75	******	0.0382	1.30	0.18
SEP 27,88	SEP 26,88	48.0	!IR ******	******	4.10	******	UG 0.1220	!IR ******	!IR ******
SEP 29,88	SEP 28,88	266.0	UG 41.0	******	4.07	******	UG 0.1200	4.40	0.32
OCT 3,88	OCT 2,88	340.0	6.5	******	5.36	******	0.0211	1.00	0.19
OCT 4,88	OCT 3,88	******	******	******	******	******	******	******	******
OCT 16,88	OCT 15,88	734.0	5.5	******	5.11	******	0.0243	1.04	0.18
OCT 17,88	OCT 16,88	******	******	******	******	******	******	******	******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DAWSON/DAILY/AEROCHEM./6131

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L
JUN 22,88	JUN 21,88	0.32		0.08		0.055		0.075		0.045		0.324		0.0056
JUN 24,88	JUN 23,88	0.52		0.16		0.100		0.095		0.110		0.988		0.0063
JUN 25,88	JUN 24,88	******		******		******		******		******		******		******
JUL 4,88	JUL 3,88	******		******		******		******		******		******		******
JUL 8,88	JUL 7,88	0.24		0.09		0.050	D	0.195		0.035	D	1.130		0.0002
JUL 13,88	JUL 12,88	0.14	<T	0.04	<T	0.025		0.040	<T	0.015		0.322		0.0015
JUL 16,88	JUL 15,88	0.22		0.06		0.035		0.050		0.040		0.526		0.0055
JUL 20,88	JUL 19,88	<T 0.04	<W	0.01	<T	0.010	<T	0.020		0.025	<W	0.006		0.0058
JUL 22,88	JUL 21,88	******		******		******		******		******		******		******
JUL 23,88	JUL 22,88	0.54		0.06		0.115		0.060		0.035		0.380		0.0005
JUL 29,88	JUL 28,88	0.28	<W	0.01		0.045		0.070		0.030		0.246		0.0026
JUL 31,88	JUL 30,88	******		******		******		******		******		******		******
AUG 2,88	AUG 1,88	0.30	<W	0.01		0.045		0.030		0.030		0.276		0.0004
AUG 4,88	AUG 3,88	<W 0.02	<W	0.01	<W	0.005	<T	0.015	<T	0.005		0.156	!SM	******
AUG 5,88	AUG 4,88	<W 0.02	<W	0.01	<W	0.005	<W	0.005	<W	0.005	<W	0.006		0.0029
AUG 6,88	AUG 5,88	<W 0.02	<W	0.01	<W	0.005	<T	0.020	<T	0.020		0.100		0.0052
AUG 7,88	AUG 6,88	0.12	<W	0.01	<T	0.005	<T	0.020	<T	0.020		0.300		0.0034
AUG 8,88	AUG 7,88	0.60	D	0.77		0.065		0.055	B	0.700		1.100	D	0.0002
AUG 14,88	AUG 13,88	<W 0.02		0.07	<W	0.005	<T	0.010		0.050		0.120		0.0069
AUG 17,88	AUG 16,88	0.12	<W	0.01	<T	0.010	<T	0.020		0.065		0.260		0.0085
AUG 23,88	AUG 22,88	<T 0.08	<W	0.01		0.025	<T	0.015		0.140		0.210		0.0135
AUG 24,88	AUG 23,88	<T 0.04	<W	0.01	<T	0.010	<T	0.020		0.075	LG	0.030	!IS	******
AUG 25,88	AUG 24,88	<W 0.02	<W	0.01	<W	0.005	<W	0.005	<T	0.005	<W	0.006		0.0295
AUG 27,88	AUG 26,88	0.10		0.20		0.035	<T	0.015		0.035		0.166		0.0056
AUG 28,88	AUG 27,88	<W 0.02	<W	0.01	<W	0.005	<W	0.005	<W	0.005	<T	0.016		0.0065
AUG 29,88	AUG 28,88	<W 0.02	<W	0.01	<W	0.005	<W	0.005	<T	0.010	LG	0.026		0.0047
SEP 1,88	AUG 31,88	0.26	<W	0.01		0.045		0.055		0.025		0.466		0.0007
SEP 2,88	SEP 1,88	******		******		******		******		******		******		******
SEP 3,88	SEP 2,88	0.88	<T	0.02		0.250		0.125	UG	0.445		0.266	UG	0.0000
SEP 17,88	SEP 16,88	0.18		0.09		0.030		0.030	<T	0.020		0.428		0.0550
SEP 19,88	SEP 18,88	<T 0.04		0.10	<T	0.005	<T	0.010	<W	0.005		0.124		0.0141
SEP 22,88	SEP 21,88	0.94		0.19		0.085		0.110		0.110	!IS	******		0.0141
SEP 24,88	SEP 23,88	0.96	!IR	******		0.200		0.115		0.065	!IS	******	!IS	******
SEP 26,88	SEP 25,88	0.12		0.11	<T	0.015		0.025	<W	0.005		0.268		0.0178
SEP 27,88	SEP 26,88	0.74	!IR	******		0.095		0.130		0.180	!IS	******		0.0794
SEP 29,88	SEP 28,88	0.14		0.11	<T	0.020		0.035		0.050		0.326		0.0851
OCT 3,88	OCT 2,88	0.14		0.14		0.035	<T	0.020	<W	0.005		0.274		0.0044
OCT 4,88	OCT 3,88	******		******		******		******		******		******		******
OCT 16,88	OCT 15,88	0.16	<T	0.04		0.025		0.050		0.135		0.174		0.0078
OCT 17,88	OCT 16,88	******		******		******		******		******		******		******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DAWSON/DAILY/AEROCHEM./6131 PAGE : 7

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
OCT 19,88	OCT 18,88	1600 1600	**** ****	2	9.2	2	85277	2	1	87		C
OCT 21,88	OCT 20,88	1600 1600	**** ****	2	2.8	2	85279	2	1	40		NH
OCT 23,88	OCT 22,88	1600 1600	**** ****	2	17.0	2	85281	2	1	72		N
OCT 24,88	OCT 23,88	1600 1600	**** ****	2	4.8	2	85283	2	1	43		N
OCT 27,88	OCT 26,88	1600 1600	**** ****	2	5.2	2	85285	2	1	115		
OCT 31,88	OCT 30,88	1600 1600	**** ****	2	9.6	2	85287	2	1	25		N
NOV 1,88	OCT 31,88	1600 1600	**** ****	2	2.0	2	85289	2	1	5		N
NOV 5,88	NOV 4,88	1600 1600	**** ****	2	8.8	2	85291	2	1	3		N
NOV 6,88	NOV 5,88	1600 1600	**** ****	2	0.2	2	85293	2	1	****	EK	
NOV 8,88	NOV 7,88	1600 1600	**** ****	2	2.0	2	85295	2	1	135		N
NOV 10,88	NOV 9,88	1600 1600	**** ****	1	2.0	2	85297	2	1	113		
NOV 13,88	NOV 12,88	1600 1600	**** ****	2	7.0	2	85299	2	1	****	IE	
NOV 15,88	NOV 14,88	1600 1600	**** ****	1	2.6	2	85301	2	1	61		CM
NOV 16,88	NOV 15,88	1600 1600	**** ****	1	22.0	2	85303	2	1	60		NHM
NOV 17,88	NOV 16,88	1600 1600	**** ****	3	18.2	2	85305	2	1	60		N
NOV 19,88	NOV 18,88	1600 1600	**** ****	2	8.0	2	85307	2	1	37		N
NOV 26,88	NOV 25,88	1600 1600	**** ****	2	9.4	2	85309	2	1	14		NHCM
DEC 12,88	DEC 11,88	1600 1600	**** ****	2	6.0	2	85311	2	1	7		
DEC 13,88	DEC 12,88	1600 1600	**** ****	2	0.1	2	85325	2	1	****	KE	
DEC 18,88	DEC 17,88	1600 1600	**** ****	2	6.8	2	85313	2	1	23		C
DEC 19,88	DEC 18,88	1600 1600	**** ****	2	0.2	2	85327	2	1	****	EK	
DEC 23,88	DEC 22,88	1600 1600	**** ****	2	8.0	2	85329	2	1	****	EFI	
DEC 27,88	DEC 26,88	1600 1600	**** ****	2	10.0	2	85315	2	1	10		N
DEC 30,88	DEC 29,88	1600 1600	**** ****	2	3.2	2	85317	2	1	U 56	FJ	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DAWSON/DAILY/AEROCHEM./6131

PAGE : 8

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
OCT 19,88	OCT 18,88	516.0	3.0	******	5.23	******	0.0227	0.65	0.06
OCT 21,88	OCT 20,88	72.0	7.0	******	5.33	******	0.0234	1.07	0.35
OCT 23,88	OCT 22,88	795.0	4.0	******	5.18	******	0.0237	0.50	0.16
OCT 24,88	OCT 23,88	133.0	8.0	******	4.86	******	0.0286	0.70	0.12
OCT 27,88	OCT 26,88	384.0	9.0	******	5.27	******	0.0232	1.25	0.34
OCT 31,88	OCT 30,88	155.0	6.0	******	5.52	******	0.0202	0.75	0.29
NOV 1,88	OCT 31,88	7.0	!IS ******	******	5.83	******	0.0156	!IS ******	!IS ******
NOV 5,88	NOV 4,88	21.0	!IS ******	******	UG 6.12	******	0.0157	!IS ******	!IS ******
NOV 6,88	NOV 5,88	******	******	******	******	******	******	******	******
NOV 8,88	NOV 7,88	174.0	LG 2.5	******	5.27	******	0.0196	LG 0.05	0.11
NOV 10,88	NOV 9,88	145.0	10.0	******	4.77	******	0.0369	0.80	0.33
NOV 13,88	NOV 12,88	******	******	******	******	******	******	******	******
NOV 15,88	NOV 14,88	103.0	19.0	******	4.25	******	0.0781	2.15	0.27
NOV 16,88	NOV 15,88	858.0	10.0	******	4.74	******	0.0392	1.05	LG 0.02
NOV 17,88	NOV 16,88	703.0	10.5	******	4.71	******	0.0378	1.00	0.20
NOV 19,88	NOV 18,88	191.0	12.0	******	4.59	******	0.0446	0.65	0.33
NOV 26,88	NOV 25,88	88.0	9.0	******	4.49	******	0.0551	0.95	0.28
DEC 12,88	DEC 11,88	27.0	5.0	******	!IS ******	******	!IS ******	0.65	0.21
DEC 13,88	DEC 12,88	******	******	******	******	******	******	******	******
DEC 18,88	DEC 17,88	103.0	4.0	******	5.15	******	0.0244	0.40	0.26
DEC 19,88	DEC 18,88	******	******	******	******	******	******	******	******
DEC 23,88	DEC 22,88	******	******	******	******	******	******	******	******
DEC 27,88	DEC 26,88	65.0	26.5	******	4.36	******	0.0738	1.70	0.84
DEC 30,88	DEC 29,88	115.0	27.0	******	4.48	******	0.0557	0.40	0.57

ONTA... ...ISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DAWSON/DAILY/AEROCHEM./6131

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L
OCT 19,88	OCT 18,88	<W	0.02	<T	0.02	<W	0.005	<T	0.005	<T	0.010	0.180		0.0059
OCT 21,88	OCT 20,88		0.20	D	0.11		0.040	D	0.040		0.055	0.360		0.0047
OCT 23,88	OCT 22,88	<T	0.06	<T	0.05	<T	0.005	<T	0.015		0.025	0.186		0.00[illegible]
OCT 24,88	OCT 23,88	<T	0.02		0.06	<W	0.005	<T	0.015	<T	0.015	0.096		0.0138
OCT 27,88	OCT 26,88		0.36		0.09		0.035		0.045		0.040	0.380		0.0054
OCT 31,88	OCT 30,88		0.28		0.07		0.030		0.035	<T	0.020	0.260		0.0030
NOV 1,88	OCT 31,88	<T	0.04	!IS	******	<W	0.005	<T	0.025		0.035	0.090		0.0015
NOV 5,88	NOV 4,88		0.20	!IS	******		0.030		0.105		0.045	0.056	UG	0.0008
NOV 6,88	NOV 5,88		******		******		******		******		******	******		******
NOV 8,88	NOV 7,88	<W	0.02		0.06	<W	0.005	<W	0.005	<T	0.020	0.046		0.0054
NOV 10,88	NOV 9,88	<T	0.06		0.08	<T	0.010	<T	0.015	<T	0.020	0.276		0.0170
NOV 13,88	NOV 12,88		******		******		******		******		******	******		******
NOV 15,88	NOV 14,88	<T	0.06		0.12	<T	0.010	<T	0.015		0.040	0.276		0.0562
NOV 16,88	NOV 15,88	<T	0.06		0.03	<T	0.005	<T	0.005	<T	0.010	0.126		0.0182
NOV 17,88	NOV 16,88	<T	0.04		0.03	<T	0.005	<T	0.005	<T	0.010	0.120		0.0195
NOV 19,88	NOV 18,88	<T	0.04		0.09	<T	0.005	<T	0.005	<T	0.015	0.136		0.0257
NOV 26,88	NOV 25,88	UG	1.80	<T	0.05		0.045		0.025		0.045	0.128		0.0324
DEC 12,88	DEC 11,88		0.14		0.10		0.025	<T	0.025		0.075	0.152	!IS	******
DEC 13,88	DEC 12,88		******		******		******		******		******	******		******
DEC 18,88	DEC 17,88		0.28		0.08	<T	0.015	<W	0.005		0.040	0.028		0.0071
DEC 19,88	DEC 18,88		******		******		******		******		******	******		******
DEC 23,88	DEC 22,88		******		******		******		******		******	******		******
DEC 27,88	DEC 26,88		0.40		0.22		0.030		0.060		0.165	0.230		0.0437
DEC 30,88	DEC 29,88		0.14	UG	3.73	<T	0.010	<T	0.015	U	2.140	0.038		0.0331

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM #16

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 2,88	JAN 1,88	830	830	600	900	2	0.8	2	31947	2	1	23		N
JAN 3,88	JAN 2,88	830	830	2400	600	2	0.6	2	31948	2	1	31	Q	N
JAN 8,88	JAN 7,88	830	830	800	1400	2	0.8	2	31949	2	1	1		XN
JAN 13,88	JAN 10,88	830	1030	2400	700	2	13.2	2	31950	2	1	28		NHMY3
JAN 14,88	JAN 13,88	1030	830	1000	1400	2	2.0	2	31951	2	1	35		NHM
JAN 20,88	JAN 19,88	830	730	2200	600	2	6.5	2	31952	2	1	29		N
JAN 21,88	JAN 20,88	730	730	1000	1400	2	0.1	2	31953	2	1	****	EK	
JAN 23,88	JAN 22,88	730	830	800	1300	2	1.6	2	31954	2	1	21		N
JAN 24,88	JAN 23,88	830	830	1100	1500	2	1.1	2	31955	2	1	17		N
JAN 25,88	JAN 24,88	830	730	830	1430	2	****	2	31956	2	1	****	P	
JAN 31,88	JAN 30,88	730	830	1800	2000	2	8.2	2	31957	2	1	64		H
FEB 7,88	FEB 6,88	800	830	1220	240	2	2.6	2	31958	2	1	39		N
FEB 9,88	FEB 8,88	930	930	300	800	2	0.1	2	31959	2	1	****	EK	
FEB 14,88	FEB 13,88	830	830	600	830	2	0.5	2	31960	2	1	62		
FEB 15,88	FEB 14,88	830	830	1100	1700	2	1.0	2	31961	2	1	****	EK	
FEB 16,88	FEB 15,88	830	830	2200	600	2	0.4	2	31962	2	1	81		
FEB 20,88	FEB 19,88	830	830	1500	2100	2	1.9	2	31963	2	1	78		
FEB 22,88	FEB 21,88	730	730	600	730	2	2.8	2	31964	2	1	50		HC
FEB 23,88	FEB 22,88	730	830	730	900	2	0.1	2	31965	2	1	****	EK	
FEB 24,88	FEB 23,88	830	830	1830	2000	2	0.6	2	31966	2	1	13		XN
MAR 2,88	MAR 1,88	830	830	****	****	2	2.4	2	31967	2	1	U 31	G	
MAR 6,88	MAR 5,88	830	830	****	****	3	0.1	2	31968	2	1	****	EK	
MAR 8,88	MAR 7,88	830	830	2400	830	2	7.2	2	31969	2	1	58		
MAR 9,88	MAR 8,88	830	830	830	1800	2	7.4	2	31970	2	1	38		N
MAR 11,88	MAR 10,88	830	830	2400	830	2	7.6	2	31971	2	1	36		N
MAR 15,88	MAR 12,88	830	800	****	****	2	20.0	2	31972	2	1	3	Q	NY3
MAR 16,88	MAR 15,88	800	830	830	1300	2	0.1	2	31973	2	1	****	EK	
MAR 18,88	MAR 17,88	800	800	1400	1600	2	0.1	2	31974	2	1	46	Q	XN
MAR 22,88	MAR 21,88	830	830	1630	1830	2	0.8	2	31975	2	1	79	Q	
MAR 25,88	MAR 24,88	830	830	1630	1830	3	13.2	2	31976	2	1	89		
MAR 26,88	MAR 25,88	830	830	1800	830	3	5.1	2	31979	2	1	U 7	F	
MAR 27,88	MAR 26,88	830	830	830	2300	2	0.1	2	31980	2	1	****	EK	
MAR 28,88	MAR 27,88	830	830	1800	830	3	0.1	2	31981	2	1	****	EK	
MAR 29,88	MAR 28,88	830	830	1100	2000	3	8.4	2	31982	2	1	87	Q	
MAR 30,88	MAR 29,88	830	830	900	1400	2	0.1	2	31983	2	1	****	EK	
APR 3,88	APR 2,88	830	830	1700	500	1	4.6	2	31984	2	1	89	Q	
APR 4,88	APR 3,88	830	830	1900	2100	1	0.1	2	31985	2	1	****	EK	
APR 10,88	APR 9,88	830	830	1200	1400	3	0.1	2	31986	2	1	****	EK	
APR 14,88	APR 13,88	845	845	700	830	3	0.2	2	31987	2	1	280	Q	N
APR 15,88	APR 14,88	845	830	****	****	2	0.1	2	31988	2	1	****	EK	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM #16 PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 2,88	JAN 1,88	12.0	LG 3.0	******	5.94	******	0.0188	0.20	0.16
JAN 3,88	JAN 2,88	12.0	!IS ******	******	UG 6.85	******	0.0173	!IS ******	!IS ******
JAN 8,88	JAN 7,88	1.0	******	******	******	******	******	******	******
JAN 13,88	JAN 10,88	241.0	LG 3.0	******	5.43	******	0.0233	0.20	0.13
JAN 14,88	JAN 13,88	45.0	10.5	******	4.89	******	0.0385	0.40	0.41
JAN 20,88	JAN 19,88	122.0	14.0	******	4.65	******	0.0519	0.80	0.45
JAN 21,88	JAN 20,88	******	******	******	******	******	******	******	******
JAN 23,88	JAN 22,88	22.0	7.5	******	5.38	******	0.0303	0.75	0.32
JAN 24,88	JAN 23,88	12.0	LG 1.0	******	UG 6.49	******	0.0166	LG 0.15	<T 0.04
JAN 25,88	JAN 24,88	28.0	LG 1.0	******	UG 6.45	******	0.0167	0.25	<T 0.04
JAN 31,88	JAN 30,88	338.0	16.0	******	4.55	******	0.0549	0.80	0.58
FEB 7,88	FEB 6,88	66.0	7.0	******	4.96	******	0.0293	<T 0.20	0.22
FEB 9,88	FEB 8,88	******	******	******	******	******	******	******	******
FEB 14,88	FEB 13,88	20.0	34.5	******	4.18	******	0.0958	2.60	0.95
FEB 15,88	FEB 14,88	******	******	******	******	******	******	******	******
FEB 16,88	FEB 15,88	21.0	10.5	******	5.04	******	0.0303	1.10	0.32
FEB 20,88	FEB 19,88	95.0	11.1	******	4.81	******	0.0356	0.95	0.25
FEB 22,88	FEB 21,88	91.0	8.5	******	UG 6.18	******	0.0170	1.20	0.24
FEB 23,88	FEB 22,88	******	******	******	******	******	******	******	******
FEB 24,88	FEB 23,88	5.0	******	******	******	******	******	******	******
MAR 2,88	MAR 1,88	49.0	9.0	******	UG 6.16	******	0.0170	1.25	LG 0.03
MAR 6,88	MAR 5,88	******	******	******	******	******	******	******	******
MAR 8,88	MAR 7,88	269.0	15.5	******	4.66	******	0.0429	1.25	0.42
MAR 9,88	MAR 8,88	182.0	12.0	******	4.67	******	0.0431	1.25	0.15
MAR 11,88	MAR 10,88	178.0	9.0	******	UG 6.42	******	0.0205	1.10	0.30
MAR 15,88	MAR 12,88	51.0	12.5	******	!IS ******	******	!IS ******	1.40	0.61
MAR 16,88	MAR 15,88	******	******	******	******	******	******	******	******
MAR 18,88	MAR 17,88	3.0	******	******	******	******	******	******	******
MAR 22,88	MAR 21,88	41.0	8.0	******	!IS ******	******	!IS ******	0.65	0.40
MAR 25,88	MAR 24,88	754.0	10.0	******	4.88	******	0.0313	1.35	0.25
MAR 26,88	MAR 25,88	24.0	!IS ******	******	!IS ******	******	!IS ******	!IS ******	!IS ******
MAR 27,88	MAR 26,88	******	******	******	******	******	******	******	******
MAR 28,88	MAR 27,88	******	******	******	******	******	******	******	******
MAR 29,88	MAR 28,88	472.0	14.5	******	UG 6.32	******	0.0174	2.45	0.41
MAR 30,88	MAR 29,88	******	******	******	******	******	******	******	******
APR 3,88	APR 2,88	265.0	11.5	******	4.67	******	0.0403	1.35	0.21
APR 4,88	APR 3,88	******	******	******	******	******	******	******	******
APR 10,88	APR 9,88	******	******	******	******	******	******	******	******
APR 14,88	APR 13,88	36.0	!IS ******	******	4.45	******	0.0609	!IS ******	!IS ******
APR 15,88	APR 14,88	******	******	******	******	******	******	******	******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM #16

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 2,88	JAN 1,88	!IS ******	0.08	!IS ******	!IS ******	!IS ******	<T 0.010	0.0011
JAN 3,88	JAN 2,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	<T 0.020	UG 0.0001
JAN 8,88	JAN 7,88	******	******	******	******	******	******	******
JAN 13,88	JAN 10,88	<W 0.02	0.05	<T 0.005	<T 0.015	0.030	<T 0.010	0.0037
JAN 14,88	JAN 13,88	0.25	0.16	0.035	0.025	0.065	<T 0.010	0.0129
JAN 20,88	JAN 19,88	0.12	0.08	<T 0.020	<T 0.010	0.040	0.130	0.0224
JAN 21,88	JAN 20,88	******	******	******	******	******	******	******
JAN 23,88	JAN 22,88	!IS ******	0.09	!IS ******	!IS ******	!IS ******	0.200	0.0042
JAN 24,88	JAN 23,88	!IS ******	0.10	!IS ******	!IS ******	!IS ******	0.040	UG 0.0003
JAN 25,88	JAN 24,88	!IS ******	<T 0.04	!IS ******	!IS ******	!IS ******	0.040	UG 0.0004
JAN 31,88	JAN 30,88	0.16	0.13	<T 0.015	<T 0.015	0.045	0.110	0.0282
FEB 7,88	FEB 6,88	0.14	0.06	<T 0.025	<T 0.010	0.040	0.030	0.0110
FEB 9,88	FEB 8,88	******	******	******	******	******	******	******
FEB 14,88	FEB 13,88	!IS ******	0.16	!IS ******	!IS ******	!IS ******	<T 0.010	0.0661
FEB 15,88	FEB 14,88	******	******	******	******	******	******	******
FEB 16,88	FEB 15,88	!IS ******	0.14	!IS ******	!IS ******	!IS ******	0.260	0.0087
FEB 20,88	FEB 19,88	0.14	0.08	<T 0.025	<T 0.010	0.055	0.160	0.0155
FEB 22,88	FEB 21,88	0.26	0.09	0.055	0.045	0.115	0.280	UG 0.0007
FEB 23,88	FEB 22,88	******	******	******	******	******	******	******
FEB 24,88	FEB 23,88	******	******	******	******	******	******	******
MAR 2,88	MAR 1,88	!IS ******	0.06	!IS ******	!IS ******	!IS ******	0.410	UG 0.0007
MAR 6,88	MAR 5,88	******	******	******	******	******	******	******
MAR 8,88	MAR 7,88	0.18	<T 0.05	<T 0.025	<T 0.010	0.030	0.340	0.0219
MAR 9,88	MAR 8,88	<T 0.06	<T 0.02	<T 0.015	<W 0.005	<T 0.010	0.140	0.0214
MAR 11,88	MAR 10,88	<T 0.08	0.08	<T 0.015	<T 0.015	0.035	0.630	UG 0.0004
MAR 15,88	MAR 12,88	UG 1.56	0.20	0.110	0.115	0.255	0.148	!IS ******
MAR 16,88	MAR 15,88	******	******	******	******	******	******	******
MAR 18,88	MAR 17,88	******	******	******	******	******	******	******
MAR 22,88	MAR 21,88	!IS ******	0.16	!IS ******	!IS ******	!IS ******	0.202	!IS ******
MAR 25,88	MAR 24,88	0.12	<T 0.04	<T 0.015	<T 0.020	0.030	0.350	0.0132
MAR 26,88	MAR 25,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	D 0.242	!IS ******
MAR 27,88	MAR 26,88	******	******	******	******	******	******	******
MAR 28,88	MAR 27,88	******	******	******	******	******	******	******
MAR 29,88	MAR 28,88	0.80	0.14	0.070	0.160	0.145	0.490	UG 0.0005
MAR 30,88	MAR 29,88	******	******	******	******	******	******	******
APR 3,88	APR 2,88	0.22	0.06	<T 0.020	0.050	0.030	0.070	0.0214
APR 4,88	APR 3,88	******	******	******	******	******	******	******
APR 10,88	APR 9,88	******	******	******	******	******	******	******
APR 14,88	APR 13,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	0.274	0.0355
APR 15,88	APR 14,88	******	******	******	******	******	******	******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM #16

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES		SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
APR 23,88	APR 22,88	830	830	****	****	1	0.1	1	31990	2	1		****	EK	
APR 26,88	APR 25,88	800	800	1600	1700	1	0.1	1	31991	2	1		421		N
MAY 7,88	MAY 6,88	830	830	****	****	1	0.1	1	31993	2	1		****	EK	
MAY 8,88	MAY 7,88	830	830	30	230	1	3.1	1	31994	2	1		102	Q	
MAY 9,88	MAY 8,88	830	800	****	800	1	26.6	1	31995	2	1		101		
MAY 10,88	MAY 9,88	800	800	800	1300	1	12.5	1	31998	2	1		87		H
MAY 11,88	MAY 10,88	800	830	530	800	1	2.2	1	31999	2	1		100	Q	
MAY 12,88	MAY 11,88	830	830	430	630	1	2.4	1	32000	2	1		92		H
MAY 13,88	MAY 12,88	830	830	1430	1800	1	9.6	1	85800	2	1		92	Q	H
MAY 14,88	MAY 13,88	830	800	1200	1500	1	0.1	1	85801	2	1		****	EK	
MAY 15,88	MAY 14,88	800	800	1100	1200	1	1.0	1	85802	2	1		63	Q	
MAY 22,88	MAY 21,88	800	830	1000	1200	1	3.2	1	85803	2	1		102	Q	
MAY 27,88	MAY 26,88	830	800	200	500	1	1.0	1	85804	2	1		87		
MAY 30,88	MAY 29,88	800	830	1700	1900	1	6.6	1	85805	2	1		79	Q	
JUN 2,88	JUN 1,88	830	830	100	600	1	0.4	1	85806	2	1		58	Q	
JUN 8,88	JUN 7,88	830	830	230	530	1	12.0	1	85808	2	1	U	95	QJ	
JUN 13,88	JUN 12,88	830	830	****	100	1	6.2	1	85811	2	1		105	Q	H
JUN 14,88	JUN 13,88	830	830	****	100	1	13.4	1	85812	2	1		100	Q	
JUN 15,88	JUN 14,88	830	830	200	600	1	2.2	1	85813	2	1		68	Q	CM
JUN 16,88	JUN 15,88	830	830	1900	2100	1	8.6	1	85814	2	1		92	Q	
JUN 19,88	JUN 18,88	830	830	2330	****	1	15.0	1	85815	2	1		96	Q	
JUN 22,88	JUN 21,88	830	830	2130	2230	1	23.8	1	85816	2	1		107		
JUN 24,88	JUN 23,88	730	730	300	630	1	3.5	1	85817	2	1		90	Q	
JUN 25,88	JUN 24,88	730	830	800	1000	1	8.4	1	85818	2	1		98	Q	
JUN 26,88	JUN 25,88	830	830	2000	2100	1	0.6	1	85819	2	1	U	7	G	X
JUN 28,88	JUN 27,88	830	830	330	730	1	12.6	1	85820	2	1		103	Q	
JUN 29,88	JUN 28,88	830	800	730	900	1	3.6	1	85821	2	1		58	Q	HCM
JUL 6,88	JUL 5,88	730	745	800	900	1	11.0	1	85823	2	1		100	A	HM
JUL 8,88	JUL 7,88	800	800	1730	1830	1	3.8	1	85826	2	1		97	C	H
JUL 13,88	JUL 12,88	820	820	100	400	1	8.0	1	85828	2	1		100	C	HM
JUL 15,88	JUL 13,88	820	1700	330	700	1	40.0	1	85829	2	1	U	0	FQ	HCMYZ
JUL 19,88	JUL 18,88	830	830	2130	2230	1	0.2	1	85830	2	1		70	Q	HM
JUL 21,88	JUL 20,88	800	800	1530	1630	1	0.2	1	85831	2	1		23	CE	N
JUL 24,88	JUL 23,88	900	900	330	530	1	3.1	1	85832	2	1		96	Q	HM
JUL 27,88	JUL 26,88	745	745	630	700	1	0.4	1	85833	2	1		23	Q	NM
JUL 29,88	JUL 28,88	800	800	1700	1800	1	45.0	1	85834	2	1	U	0	FD	
JUL 30,88	JUL 29,88	800	830	1000	1100	1	20.3	1	85835	2	1		105		H
AUG 1,88	JUL 31,88	745	745	500	730	1	5.5	1	85837	2	1		89	C	H
AUG 2,88	AUG 1,88	745	730	330	630	1	14.6	1	85838	2	1		101	Q	HM
AUG 3,88	AUG 2,88	730	715	900	1200	1	0.2	1	85841	2	1		93	CDQ	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM #16

PAGE : 5

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
APR 23,88	APR 22,88	******		******		******		******	******		******		******		******
APR 26,88	APR 25,88	27.0	!IS	******		******	UG	7.03	******		0.0132	!IS	******	!IS	******
MAY 7,88	MAY 6,88	******		******		******		******	******		******		******		******
MAY 8,88	MAY 7,88	203.0		20.0		******		6.59	******		0.0204		3.85		0.53
MAY 9,88	MAY 8,88	1739.0		7.0		******		4.82	******		0.0341		0.80		0.15
MAY 10,88	MAY 9,88	699.0		6.0		******		4.96	******		0.0268		0.40		0.10
MAY 11,88	MAY 10,88	142.0	D	15.5		******	D	6.67	******		0.0201		2.20		0.60
MAY 12,88	MAY 11,88	143.0		5.5		******		5.52	******		0.0208		0.65		0.22
MAY 13,88	MAY 12,88	570.0		3.0		******		5.78	******		0.0173		0.40		0.09
MAY 14,88	MAY 13,88	******		******		******		******	******		******		******		******
MAY 15,88	MAY 14,88	41.0	B	42.5		******	UG	6.90	******		0.0216	B	8.10	UG	1.59
MAY 22,88	MAY 21,88	210.0	UG	41.0		******		4.35	******	UG	0.0759	UG	5.55		1.06
MAY 27,88	MAY 26,88	56.0		16.0		******	D	6.72	******		0.0192		1.90		0.53
MAY 30,88	MAY 29,88	336.0		22.5		******		4.46	******	UG	0.0552		2.50		0.48
JUN 2,88	JUN 1,88	15.0		7.0		******		5.07	******		0.0207		0.35		0.24
JUN 8,88	JUN 7,88	736.0		11.0		******		4.94	******		0.0282		1.50		0.21
JUN 13,88	JUN 12,88	420.0		24.0		******		5.58	******		0.0257		4.40		0.83
JUN 14,88	JUN 13,88	862.0		10.0		******		5.40	******		0.0231		1.40		0.30
JUN 15,88	JUN 14,88	96.0	LG	1.5		******		6.02	******		0.0130	<W	0.05	<W	0.01
JUN 16,88	JUN 15,88	512.0		6.5		******		4.92	******		0.0245		0.65		0.07
JUN 19,88	JUN 18,88	929.0		8.5		******		5.34	******		0.0201		0.80		0.35
JUN 22,88	JUN 21,88	1639.0	D	7.5		******		5.34	******		0.0194		0.80		0.21
JUN 24,88	JUN 23,88	204.0		15.0		******	UG	6.83	******		0.0125		1.45		0.70
JUN 25,88	JUN 24,88	529.0		12.0		******		6.08	******		0.0192		1.55		0.53
JUN 26,88	JUN 25,88	3.0		******		******		******	******		******		******		******
JUN 28,88	JUN 27,88	836.0		3.5		******		5.40	******		0.0168		0.30		0.11
JUN 29,88	JUN 28,88	136.0	U	1.5		******		6.49	******		0.0160	<W	0.05	<W	0.01
JUL 6,88	JUL 5,88	706.0		7.5		******		6.74	******		0.0190		1.05		0.36
JUL 8,88	JUL 7,88	237.0		8.0		******		5.31	******		0.0282		0.95		0.41
JUL 13,88	JUL 12,88	517.0		10.0		******		5.56	******		0.0491		1.65		0.33
JUL 15,88	JUL 13,88	5.0		10.0		******		6.52	******		0.0158	<W	0.05	<T	0.01
JUL 19,88	JUL 18,88	9.0		3.0		******	UG	7.04	******		0.0168		0.30		0.13
JUL 21,88	JUL 20,88	3.0	!SM	******		******	!SM	******	******	!SM	******	!SM	******	!SM	******
JUL 24,88	JUL 23,88	191.0		12.0		******	UG	6.99	******		0.0166		1.75		0.66
JUL 27,88	JUL 26,88	6.0		10.0		******	UG	7.29	******		0.0148		1.25		0.31
JUL 29,88	JUL 28,88	6.0		3.0		******		6.37	******		0.0171		0.30		0.15
JUL 30,88	JUL 29,88	1369.0		6.5		******		6.06	******		0.0201		0.90		0.28
AUG 1,88	JUL 31,88	317.0		5.5		******		6.14	******		0.0192		0.65		0.26
AUG 2,88	AUG 1,88	947.0		10.0		******	UG	7.05	******		0.0241		1.15		0.47
AUG 3,88	AUG 2,88	12.0		2.5		******	!IS	******	******	!IS	******	<T	0.15		0.11

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEN #16

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L	
APR 23,88	APR 22,88		******		******		******		******		******		******		******
APR 26,88	APR 25,88	!IS	******	!IS	******	!IS	******	!IS	******	!IS	******		0.074	UG	0.0001
MAY 7,88	MAY 6,88		******		******		******		******		******		******		******
MAY 8,88	MAY 7,88		0.76		0.11		0.145		0.125		0.030		1.120		0.0003
MAY 9,88	MAY 8,88	<T	0.02	<W	0.01	<T	0.005		0.025	<T	0.005		0.124		0.0151
MAY 10,88	MAY 9,88	<W	0.02	<T	0.03	<W	0.005	<T	0.025	<T	0.010	LG	0.016		0.0110
MAY 11,88	MAY 10,88		0.64		0.10		0.155	D	0.100		0.030	D	0.816	D	0.0002
MAY 12,88	MAY 11,88		0.12	<T	0.05	<T	0.020		0.025	<T	0.015	D	0.236		0.0030
MAY 13,88	MAY 12,88	<W	0.02		0.05	<W	0.005	<T	0.015	<W	0.005		0.186		0.0017
MAY 14,88	MAY 13,88		******		******		******		******		******		******		******
MAY 15,88	MAY 14,88		1.90		0.26		0.320	B	0.320	UG	1.270	D	1.820	UG	0.0001
MAY 22,88	MAY 21,88		0.80		0.18		0.130		0.055		0.070		1.290		0.0447
MAY 27,88	MAY 26,88	!IS	******		0.15	!IS	******	!IS	******	!IS	******	D	0.840	D	0.0002
MAY 30,88	MAY 29,88		0.22		0.11		0.035		0.095		0.040		0.528		0.0347
JUN 2,88	JUN 1,88	!IS	******		0.11	!IS	******	!IS	******	!IS	******		0.034		0.0085
JUN 8,88	JUN 7,88		0.14		0.05		0.030		0.035	<T	0.015		0.348		0.0115
JUN 13,88	JUN 12,88		1.10		0.15		0.130		0.165		0.050		1.200		0.0026
JUN 14,88	JUN 13,88	D	0.20	<T	0.04		0.025		0.055	<T	0.015		0.462		0.0040
JUN 15,88	JUN 14,88	<W	0.02	<W	0.01	<W	0.005	<T	0.005	<T	0.010	<T	0.020		0.0010
JUN 16,88	JUN 15,88	<W	0.02	<T	0.02	<W	0.005	<T	0.020	<T	0.015		0.054		0.0120
JUN 19,88	JUN 18,88		0.14	<T	0.05		0.025		0.030		0.030		0.370		0.0046
JUN 22,88	JUN 21,88		0.10	<T	0.05	<T	0.015	D	0.025		0.025		0.280		0.0046
JUN 24,88	JUN 23,88	D	1.30		0.16		0.125		0.095		0.075		0.616	UG	0.0001
JUN 25,88	JUN 24,88		0.36		0.12		0.050		0.065		0.050		0.720		0.0008
JUN 26,88	JUN 25,88		******		******		******		******		******		******		******
JUN 28,88	JUN 27,88	<T	0.04	<T	0.01	<T	0.010	<T	0.005	<T	0.010		0.088		0.0040
JUN 29,88	JUN 28,88	<T	0.02		0.30	<W	0.005	<T	0.005	<T	0.015	<W	0.006		0.0003
JUL 6,88	JUL 5,88		0.14		0.12	<T	0.015		0.040	<T	0.020		0.436		0.0002
JUL 8,88	JUL 7,88		0.18		0.07		0.030		0.035		0.040		0.320		0.0049
JUL 13,88	JUL 12,88		0.20	D	0.52		0.030	<T	0.024	<T	0.018		0.370		0.0028
JUL 15,88	JUL 13,88		0.10	<W	0.01	<T	0.005	<T	0.015		0.035	<W	0.006		0.0003
JUL 19,88	JUL 18,88		0.24	<W	0.01		0.055		0.040		0.045		0.096	UG	0.0001
JUL 21,88	JUL 20,88	!NR	******	!SM	******	!NR	******	!NR	******	!NR	******	!SM	******	!SM	******
JUL 24,88	JUL 23,88		0.66		0.06		0.105		0.040	<T	0.020		0.450	UG	0.0001
JUL 27,88	JUL 26,88		0.64		0.06		0.155		0.090		0.215		0.506	UG	0.0001
JUL 29,88	JUL 28,88		0.20		0.06		0.055		0.045		0.035		0.206		0.0004
JUL 30,88	JUL 29,88		0.18	<W	0.01	<T	0.020		0.035		0.030		0.326		0.0009
AUG 1,88	JUL 31,88		0.16	<W	0.01		0.030		0.025	<T	0.020		0.296		0.0007
AUG 2,88	AUG 1,88		0.62		0.10		0.105		0.050		0.070		0.366	UG	0.0001
AUG 3,88	AUG 2,88		0.16	<W	0.01	<T	0.015	<T	0.025		0.055		0.106	!IS	******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM #16

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
AUG 4,88	AUG 3,88	715	815	1900	2200	1	5.8	1	85842	2	1	97	B	HC
AUG 5,88	AUG 4,88	815	745	1000	1500	1	25.0	1	85843	2	1	101		NHCM
AUG 6,88	AUG 5,88	745	830	1000	1200	1	18.8	1	85846	2	1	97		NCM
AUG 8,88	AUG 7,88	745	745	830	1230	1	27.9	1	85847	2	1	104		NH
AUG 12,88	AUG 11,88	800	800	130	200	1	0.1	1	85848	2	1	****	EK	
AUG 13,88	AUG 12,88	800	900	130	830	1	2.6	1	85849	2	1	88		H
AUG 14,88	AUG 13,88	900	800	2000	2400	1	50.0	1	85850	2	1	89		N
AUG 16,88	AUG 15,88	800	800	400	600	1	10.4	1	85851	2	1	94		
AUG 17,88	AUG 16,88	800	815	1900	400	1	69.2	1	85852	2	1	106		NH
AUG 20,88	AUG 19,88	845	845	****	****	1	2.8	1	85853	2	1	78		
AUG 21,88	AUG 20,88	845	1200	1000	1200	1	5.2	1	85854	2	1	87		HM
AUG 22,88	AUG 21,88	1200	730	200	600	1	1.0	1	85855	2	1	56		
AUG 23,88	AUG 22,88	730	900	830	1930	1	47.8	1	85856	2	1	103		N
AUG 24,88	AUG 23,88	900	830	1800	2000	1	0.1	1	85857	2	1	****	EK	
AUG 25,88	AUG 24,88	830	715	1200	1300	1	13.8	1	85858	2	1	100		N
AUG 26,88	AUG 25,88	715	830	1100	1430	1	1.8	1	85859	2	1	59		HM
AUG 27,88	AUG 26,88	830	715	2130	330	1	5.0	1	85860	2	1	86		
AUG 28,88	AUG 27,88	715	845	****	****	1	6.8	1	85861	2	1	14		NHCM
AUG 29,88	AUG 28,88	845	700	1730	2030	1	2.0	1	85862	2	1	72		HCM
AUG 30,88	AUG 29,88	700	830	900	1200	1	1.0	1	85863	2	1	62		
SEP 1,88	AUG 31,88	730	730	130	330	1	24.6	1	85864	2	1	U 98	F	
SEP 2,88	SEP 1,88	730	830	1800	2100	1	4.0	1	85867	2	1	80		H
SEP 5,88	SEP 4,88	900	900	1000	1100	1	1.0	1	85868	2	1	40		
SEP 9,88	SEP 8,88	830	830	****	****	1	0.1	1	85869	2	1	****	EK	
SEP 11,88	SEP 10,88	830	830	****	****	1	0.1	1	85870	2	1	****	EK	
SEP 12,88	SEP 11,88	830	730	100	500	1	0.8	1	85871	2	1	15	A	
SEP 16,88	SEP 15,88	800	800	2000	200	1	4.0	1	85872	2	1	U 74	F	HM
SEP 17,88	SEP 16,88	800	830	1300	1800	1	5.6	1	85873	2	1	89		
SEP 19,88	SEP 18,88	830	730	130	230	1	5.2	1	85874	2	1	82	A	HCM
SEP 20,88	SEP 19,88	730	830	2300	500	1	9.8	1	85875	2	1	85		
SEP 21,88	SEP 20,88	830	815	1000	1600	1	1.4	1	85876	2	1	14		N
SEP 25,88	SEP 24,88	830	830	****	****	1	1.3	1	85877	2	1	57		HM
SEP 26,88	SEP 25,88	830	800	230	500	1	4.0	1	85878	2	1	92		
SEP 29,88	SEP 28,88	830	830	2000	200	1	4.4	1	85879	2	1	82		C
OCT 1,88	SEP 30,88	900	900	1800	2100	1	0.1	1	85880	2	1	****	EK	
OCT 3,88	OCT 2,88	730	730	130	630	1	6.4	1	85881	2	1	19		NHM
OCT 4,88	OCT 3,88	730	800	****	****	3	****	1	85882	2	1	****	P	HM
OCT 11,88	OCT 10,88	745	745	2400	500	3	1.0	2	85883	2	1	230		N
OCT 16,88	OCT 15,88	830	830	100	400	1	0.5	2	85884	2	1	243		N
OCT 17,88	OCT 16,88	830	900	830	1100	1	2.6	2	85885	2	1	108		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM #16 PAGE : 8

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
AUG 4,88	AUG 3,88	363.0	5.0	******	5.19	******	0.0278	0.40	0.30
AUG 5,88	AUG 4,88	1627.0	LG 1.5	******	5.40	******	0.0214	<T 0.20	<T 0.05
AUG 6,88	AUG 5,88	1178.0	LG 1.5	******	5.33	******	0.0211	<T 0.10	<T 0.04
AUG 8,88	AUG 7,88	1865.0	6.0	******	5.13	******	0.0277	0.65	0.27
AUG 12,88	AUG 11,88	******	******	******	******	******	******	******	******
AUG 13,88	AUG 12,88	148.0	14.5	******	5.21	******	0.0300	3.20	0.75
AUG 14,88	AUG 13,88	2860.0	LG 2.0	******	5.44	******	0.0201	<T 0.25	<T 0.05
AUG 16,88	AUG 15,88	627.0	8.5	******	6.68	******	0.0193	1.25	0.44
AUG 17,88	AUG 16,88	4716.0	5.5	******	5.91	******	D 0.0195	0.95	0.21
AUG 20,88	AUG 19,88	140.0	5.5	******	5.09	******	0.0275	0.45	0.21
AUG 21,88	AUG 20,88	293.0	3.5	******	5.06	******	0.0240	<T 0.20	0.09
AUG 22,88	AUG 21,88	36.0	21.0	******	!IS ******	******	!IS ******	3.75	0.99
AUG 23,88	AUG 22,88	3176.0	11.0	******	4.57	******	0.0463	1.75	0.13
AUG 24,88	AUG 23,88	******	******	******	******	******	******	******	******
AUG 25,88	AUG 24,88	891.0	7.0	******	4.97	******	0.0311	1.05	<T 0.04
AUG 26,88	AUG 25,88	69.0	5.0	******	5.22	******	0.0247	<T 0.10	<T 0.04
AUG 27,88	AUG 26,88	277.0	12.0	******	B 6.97	******	D 0.0176	D 2.70	0.35
AUG 28,88	AUG 27,88	65.0	<T 1.0	******	5.50	******	0.0201	0.30	<T 0.03
AUG 29,88	AUG 28,88	93.0	LG 2.0	******	5.32	******	0.0226	0.55	<T 0.04
AUG 30,88	AUG 29,88	40.0	3.0	******	!IS ******	******	!IS ******	<T 0.10	<T 0.04
SEP 1,88	AUG 31,88	1554.0	6.0	******	6.19	******	0.0208	1.00	0.21
SEP 2,88	SEP 1,88	206.0	8.0	******	6.81	******	0.0192	1.85	0.26
SEP 5,88	SEP 4,88	26.0	LG 2.0	******	!IS ******	******	!IS ******	0.35	<T 0.03
SEP 9,88	SEP 8,88	******	******	******	******	******	******	******	******
SEP 11,88	SEP 10,88	******	******	******	******	******	******	******	******
SEP 12,88	SEP 11,88	8.0	!IS ******	******	UG 6.90	******	0.0249	!IS ******	!IS ******
SEP 16,88	SEP 15,88	192.0	9.0	******	6.02	******	0.0191	1.70	0.34
SEP 17,88	SEP 16,88	322.0	11.0	******	D 4.58	******	D 0.0425	1.40	0.17
SEP 19,88	SEP 18,88	275.0	5.0	******	4.59	******	0.0443	0.40	0.55
SEP 20,88	SEP 19,88	540.0	3.5	******	5.16	******	0.0217	0.40	0.11
SEP 21,88	SEP 20,88	13.0	!IS ******	******	5.55	******	0.0176	!IS ******	!IS ******
SEP 25,88	SEP 24,88	48.0	27.0	******	UG 7.08	******	0.0191	3.65	<T 0.02
SEP 26,88	SEP 25,88	238.0	8.5	******	6.42	******	0.0182	1.15	0.40
SEP 29,88	SEP 28,88	234.0	11.0	******	4.29	******	UG 0.0679	2.40	0.38
OCT 1,88	SEP 30,88	******	******	******	******	******	******	******	******
OCT 3,88	OCT 2,88	80.0	5.5	******	5.16	******	0.0235	<T 0.15	0.12
OCT 4,88	OCT 3,88	151.0	LG 2.0	******	5.45	******	0.0178	0.30	<T 0.03
OCT 11,88	OCT 10,88	148.0	2.5	******	5.42	******	0.0199	0.45	<T 0.02
OCT 16,88	OCT 15,88	78.0	30.0	******	UG 6.98	******	0.0198	B 5.80	1.09
OCT 17,88	OCT 16,88	181.0	LG 2.0	******	5.85	******	0.0165	0.40	0.05

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM #16

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
AUG 4,88	AUG 3,88	<T 0.10	0.16	0.035	B 0.265	<T 0.010	0.240	0.0065
AUG 5,88	AUG 4,88	<W 0.02	<W 0.01	<W 0.005	<W 0.005	<W 0.005	0.110	0.0040
AUG 6,88	AUG 5,88	<W 0.02	0.06	<W 0.005	<W 0.005	<W 0.005	<T 0.006	0.0047
AUG 8,88	AUG 7,88	<T 0.10	<W 0.01	<T 0.010	<T 0.020	<T 0.025	0.330	0.0074
AUG 12,88	AUG 11,88	######	######	######	######	######	######	######
AUG 13,88	AUG 12,88	0.38	0.10	0.070	0.065	0.040	0.936	0.0062
AUG 14,88	AUG 13,88	<W 0.02	<W 0.01	<W 0.005	<T 0.005	<W 0.005	0.066	0.0036
AUG 16,88	AUG 15,88	0.16	0.06	0.030	0.045	0.030	0.800	0.0002
AUG 17,88	AUG 16,88	0.14	<W 0.01	0.030	0.030	0.025	0.426	0.0012
AUG 20,88	AUG 19,88	<T 0.08	<W 0.01	<T 0.015	0.025	<T 0.025	0.140	0.0081
AUG 21,88	AUG 20,88	<W 0.02	0.24	<W 0.005	<W 0.005	<T 0.015	<T 0.020	0.0087
AUG 22,88	AUG 21,88	0.90	0.19	0.195	0.135	0.035	1.440	!IS ######
AUG 23,88	AUG 22,88	<W 0.02	<W 0.01	<W 0.005	<T 0.010	<W 0.005	0.276	0.0269
AUG 24,88	AUG 23,88	######	######	######	######	######	######	######
AUG 25,88	AUG 24,88	<T 0.02	<T 0.02	<T 0.015	<T 0.020	<T 0.015	D 0.186	0.0107
AUG 26,88	AUG 25,88	<W 0.02	0.84	<W 0.005	<T 0.010	<T 0.015	LQ 0.030	0.0060
AUG 27,88	AUG 26,88	D 0.72	<T 0.04	D 0.210	0.080	B 0.270	0.540	B 0.0001
AUG 28,88	AUG 27,88	<T 0.04	<W 0.01	<T 0.010	<T 0.010	<T 0.005	0.090	0.0032
AUG 29,88	AUG 28,88	<W 0.02	<W 0.01	<T 0.005	<T 0.010	<T 0.010	0.066	0.0048
AUG 30,88	AUG 29,88	<W 0.02	0.16	<W 0.005	<W 0.005	<T 0.015	<T 0.006	!IS ######
SEP 1,88	AUG 31,88	0.14	<W 0.01	0.025	0.045	<T 0.010	0.426	0.0006
SEP 2,88	SEP 1,88	0.34	<W 0.01	0.100	0.060	UQ 0.445	0.340	0.0002
SEP 5,88	SEP 4,88	<T 0.06	<T 0.02	<T 0.015	<T 0.020	0.100	<W 0.006	!IS ######
SEP 9,88	SEP 8,88	######	######	######	######	######	######	######
SEP 11,88	SEP 10,88	######	######	######	######	######	######	######
SEP 12,88	SEP 11,88	0.56	!IS ######	0.100	UQ 0.220	UQ 0.365	0.996	UQ 0.0001
SEP 16,88	SEP 15,88	0.54	0.11	0.110	0.055	0.040	0.576	0.0010
SEP 17,88	SEP 16,88	<T 0.04	<T 0.01	<T 0.010	<W 0.005	<W 0.005	0.116	D 0.0263
SEP 19,88	SEP 18,88	0.26	0.09	0.025	0.035	0.045	0.680	0.0257
SEP 20,88	SEP 19,88	<W 0.02	<T 0.04	<W 0.005	<T 0.010	<W 0.005	0.116	0.0069
SEP 21,88	SEP 20,88	<T 0.04	!IS ######	<W 0.005	0.025	<T 0.020	<T 0.010	0.0028
SEP 25,88	SEP 24,88	1.52	0.11	0.320	0.135	0.160	2.010	UQ 0.0001
SEP 26,88	SEP 25,88	0.28	<T 0.02	0.035	0.030	<T 0.015	D 0.686	0.0004
SEP 29,88	SEP 28,88	0.16	0.08	0.030	<T 0.020	<T 0.015	0.336	0.0513
OCT 1,88	SEP 30,88	######	######	######	######	######	######	######
OCT 3,88	OCT 2,88	0.10	0.33	0.030	<T 0.020	D 0.185	0.126	0.0069
OCT 4,88	OCT 3,88	<W 0.02	0.07	<W 0.005	<W 0.005	<T 0.020	0.040	0.0035
OCT 11,88	OCT 10,88	<T 0.08	<T 0.03	<T 0.020	<T 0.020	<W 0.005	LQ 0.026	0.0038
OCT 16,88	OCT 15,88	1.86	0.18	0.330	0.135	B 1.830	D 0.800	UQ 0.0001
OCT 17,88	OCT 16,88	<T 0.02	0.03	<W 0.005	0.025	<T 0.015	0.160	0.0014

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM #16 PAGE : 10

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES		SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
OCT 18,88	OCT 17,88	900	800	1330	1530	3	0.1	2	85886	2	1		109		NHCM
OCT 19,88	OCT 18,88	800	830	2100	2200	3	0.1	2	85887	2	1		233		NHCM
OCT 21,88	OCT 20,88	830	830	1400	2200	1	2.6	2	85888	2	1		103		
OCT 22,88	OCT 21,88	830	830	2000	2200	2	11.4	2	85889	2	1		97		
OCT 24,88	OCT 23,88	830	830	1300	1900	2	5.2	2	85890	2	1		6	Q	NC
OCT 25,88	OCT 24,88	830	830	2000	2330	2	4.4	2	85891	2	1		****	FEK	
OCT 26,88	OCT 25,88	830	800	1000	1400	2	1.4	2	85892	2	1		****	FEK	
OCT 27,88	OCT 26,88	800	830	500	700	2	0.6	2	85893	2	1		26		
OCT 28,88	OCT 27,88	830	800	1200	1430	3	8.4	2	85894	2	1		61		HM
OCT 29,88	OCT 28,88	800	900	1800	700	2	0.7	2	85895	2	1		****	FEK	
OCT 30,88	OCT 29,88	900	830	****	****	2	0.1	2	85896	2	1		****	EK	
OCT 31,88	OCT 30,88	830	800	430	800	3	0.8	2	85897	2	1		27		H
NOV 1,88	OCT 31,88	800	800	800	1100	2	5.9	2	85898	2	1		47		NHM
NOV 6,88	NOV 5,88	900	900	****	****	2	10.6	2	85899	2	1		****	EKI	
NOV 8,88	NOV 7,88	800	800	****	****	2	3.2	2	85900	2	1		62		
NOV 9,88	NOV 8,88	800	800	****	****	2	0.2	2	85901	2	1		241		NHC
NOV 10,88	NOV 9,88	800	845	****	****	3	5.4	2	85902	2	1		94		H
NOV 12,88	NOV 11,88	845	830	****	****	2	1.1	2	85903	2	1		80		HM
NOV 13,88	NOV 12,88	830	830	****	****	2	2.1	2	85904	2	1		64		
NOV 16,88	NOV 15,88	830	830	1800	830	3	22.3	2	85905	2	1	U	62	Q	C
NOV 17,88	NOV 16,88	830	830	1000	2400	2	17.1	2	85908	2	1		14		NC
NOV 19,88	NOV 18,88	830	830	230	700	2	2.3	2	85909	2	1		12		N
NOV 20,88	NOV 19,88	830	900	1000	1400	2	2.5	2	85910	2	1	U	8	FI	C
DEC 1,88	NOV 25,88	815	1040	100	600	2	23.5	2	85912	2	1	U	28	Q	Z
DEC 7,88	DEC 6,88	830	830	600	600	2	4.8	2	85913	2	1	U	1	FIE	
DEC 8,88	DEC 7,88	837	915	****	****	2	0.2	2	85914	2	1		****	EKI	
DEC 9,88	DEC 8,88	915	845	****	****	2	0.2	2	85915	2	1		****	KEF	
DEC 12,88	DEC 11,88	830	830	400	400	2	0.8	2	85916	2	1	U	83	FJ	
DEC 13,88	DEC 12,88	830	800	830	830	2	5.0	2	85917	2	1	U	78	FJ	H
DEC 14,88	DEC 13,88	830	855	2100	800	2	4.4	2	85918	2	1	U	59	FJ	H
DEC 16,88	DEC 15,88	845	820	****	****	2	0.1	2	85919	2	1	U	78	FJ	
DEC 17,88	DEC 16,88	830	930	1100	1100	2	0.5	2	85920	2	1	U	71	FJ	
DEC 18,88	DEC 17,88	930	845	****	****	2	2.2	2	85921	2	1	U	82	FJ	HM
DEC 19,88	DEC 18,88	845	835	930	930	2	0.4	2	85922	2	1	U	50	FJ	HM
DEC 20,88	DEC 19,88	900	730	****	****	2	0.3	2	85939	2	1	U	41	F	
DEC 21,88	DEC 20,88	745	845	****	****	2	1.5	2	85940	2	1		31		N
DEC 30,88	DEC 21,88	920	830	****	****	2	16.2	2	85941	2	1		63	Q	Z
DEC 31,88	DEC 30,88	850	845	850	845	2	1.7	2	85942	2	1		32		N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM #16

PAGE : 11

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM	PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
OCT 18,88	OCT 17,88	7.0	LQ	0.5	******		5.96	******	LQ	0.0103	<T	0.10	<T	0.01
OCT 19,88	OCT 18,88	15.0	LQ	2.0	******	D	5.67	******		0.0137		0.40		0.09
OCT 21,88	OCT 20,88	173.0		5.5	******		5.06	******		0.0265		0.60		0.21
OCT 22,88	OCT 21,88	709.0		6.5	******		6.53	******		0.0189		0.90		0.33
OCT 24,88	OCT 23,88	22.0	LQ	2.0	******		5.61	******		0.0163		0.25		0.13
OCT 25,88	OCT 24,88	******		******	******		******	******		******		******		******
OCT 26,88	OCT 25,88	******		******	******		******	******		******		******		******
OCT 27,88	OCT 26,88	10.0		5.0	******		5.92	******		0.0150		0.95		0.25
OCT 28,88	OCT 27,88	331.0		3.0	******		6.44	******		0.0156		0.50		0.15
OCT 29,88	OCT 28,88	******		******	******		******	******		******		******		******
OCT 30,88	OCT 29,88	******		******	******		******	******		******		******		******
OCT 31,88	OCT 30,88	14.0		6.0	******		5.82	******		0.0146		0.80		0.35
NOV 1,88	OCT 31,88	180.0		3.0	******		6.25	******		0.0146		0.44		0.21
NOV 6,88	NOV 5,88	******		******	******		******	******		******		******		******
NOV 8,88	NOV 7,88	128.0		4.5	******		5.12	******		0.0228	<T	0.15		0.17
NOV 9,88	NOV 8,88	31.0		5.5	******		5.40	******		0.0165		1.00		0.19
NOV 10,88	NOV 9,88	326.0		6.0	******	B	6.10	******		0.0172		1.00		0.39
NOV 12,88	NOV 11,88	57.0		4.0	******	UQ	6.54	******	LQ	0.0106		0.60		0.21
NOV 13,88	NOV 12,88	87.0		12.5	******		4.48	******		0.0528		1.00		0.42
NOV 16,88	NOV 15,88	895.0		7.0	******		4.70	******		0.0365		0.80		0.19
NOV 17,88	NOV 16,88	158.0	LQ	1.0	******		5.41	******		0.0194	<T	0.10	LQ	0.05
NOV 19,88	NOV 18,88	18.0	U	******	******		4.51	******		0.0492		0.45		0.58
NOV 20,88	NOV 19,88	14.0		6.0	******		4.73	******		0.0349		0.30		0.24
DEC 1,88	NOV 25,88	430.0	LQ	3.0	******		5.23	******		0.0249		0.25	<T	0.05
DEC 7,88	DEC 6,88	4.0		******	******		******	******		******		******		******
DEC 8,88	DEC 7,88	******		******	******		******	******		******		******		******
DEC 9,88	DEC 8,88	******		******	******		******	******		******		******		******
DEC 12,88	DEC 11,88	43.0		13.0	******	!IS	******	******	!IS	******		0.90		0.69
DEC 13,88	DEC 12,88	250.0		7.0	******		5.18	******		0.0291		1.05		0.24
DEC 14,88	DEC 13,88	167.0		3.5	******		5.23	******		0.0249	LQ	0.15		0.15
DEC 16,88	DEC 15,88	5.0	LQ	2.5	******	!IS	******	******	!IS	******		0.25		0.15
DEC 17,88	DEC 16,88	23.0		4.0	******	!IS	******	******	!IS	******		0.35		0.20
DEC 18,88	DEC 17,88	117.0		4.0	******		5.33	******		0.0241		0.26		0.18
DEC 19,88	DEC 18,88	13.0		6.5	******	UQ	6.34	******		0.0179		0.65		0.36
DEC 20,88	DEC 19,88	8.0		9.0	******	!IS	******	******	!IS	******		0.75		0.30
DEC 21,88	DEC 20,88	30.0		28.5	******	!IS	******	******	!IS	******		1.85		0.84
DEC 30,88	DEC 21,88	655.0		16.0	******		4.56	******		0.0469		1.05		0.49
DEC 31,88	DEC 30,88	35.0		13.0	******	!IS	******	******	!IS	******		0.45		0.53

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM #16 PAGE : 12

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
OCT 18,88	OCT 17,88	<W 0.02	<T 0.04	<W 0.005	<T 0.010	<T 0.015	<T 0.010	0.0011
OCT 19,88	OCT 18,88	<T 0.02	<T 0.05	<T 0.005	<T 0.015	<T 0.015	0.320	D 0.0021
OCT 21,88	OCT 20,88	<T 0.08	0.06	<T 0.015	<T 0.020	<T 0.020	0.136	0.0087
OCT 22,88	OCT 21,88	0.12	0.14	<T 0.015	0.100	0.080	0.596	0.0003
OCT 24,88	OCT 23,88	<T 0.10	0.08	<T 0.025	0.025	0.050	0.086	0.0025
OCT 25,88	OCT 24,88	******	******	******	******	******	******	******
OCT 26,88	OCT 25,88	******	******	******	******	******	******	******
OCT 27,88	OCT 26,88	0.42	0.07	0.035	0.075	0.060	0.200	0.0012
OCT 28,88	OCT 27,88	0.20	<T 0.04	<T 0.025	0.030	<T 0.020	0.190	0.0004
OCT 29,88	OCT 28,88	******	******	******	******	******	******	******
OCT 30,88	OCT 29,88	******	******	******	******	******	******	******
OCT 31,88	OCT 30,88	0.50	0.10	0.055	0.055	0.040	0.296	0.0015
NOV 1,88	OCT 31,88	0.24	0.06	<T 0.020	<T 0.015	<T 0.015	0.160	0.0006
NOV 6,88	NOV 5,88	******	******	******	******	******	******	******
NOV 8,88	NOV 7,88	<T 0.08	0.12	<T 0.010	<T 0.010	0.040	<T 0.016	0.0076
NOV 9,88	NOV 8,88	0.10	0.28	<T 0.015	0.155	0.185	0.410	0.0040
NOV 10,88	NOV 9,88	D 0.40	0.16	<T 0.025	0.040	0.025	0.360	B 0.0008
NOV 12,88	NOV 11,88	0.10	0.16	<T 0.015	0.030	<T 0.020	0.180	UG 0.0003
NOV 13,88	NOV 12,88	<T 0.06	0.12	<T 0.010	<T 0.015	<T 0.020	0.176	0.0331
NOV 16,88	NOV 15,88	<T 0.04	<T 0.05	<T 0.005	<T 0.010	<T 0.015	0.076	0.0200
NOV 17,88	NOV 16,88	<T 0.04	<T 0.03	<W 0.005	<T 0.010	<T 0.020	<T 0.010	0.0039
NOV 19,88	NOV 18,88	0.16	0.16	<T 0.020	0.035	0.060	0.056	0.0309
NOV 20,88	NOV 19,88	<T 0.02	0.11	<T 0.010	<T 0.015	<T 0.025	0.056	0.0186
DEC 1,88	NOV 25,88	<T 0.04	<W 0.01	<W 0.005	<T 0.005	<T 0.010	0.018	0.0059
DEC 7,88	DEC 6,88	******	******	******	******	******	******	******
DEC 8,88	DEC 7,88	******	******	******	******	******	******	******
DEC 9,88	DEC 8,88	******	******	******	******	******	******	******
DEC 12,88	DEC 11,88	D 0.60	0.19	D 0.115	0.060	0.140	0.072	!IS ******
DEC 13,88	DEC 12,88	0.16	<T 0.04	<T 0.020	0.025	0.030	0.224	0.0066
DEC 14,88	DEC 13,88	<T 0.06	0.05	<T 0.005	<T 0.005	0.030	0.020	0.0059
DEC 16,88	DEC 15,88	<T 0.10	0.12	<T 0.015	0.050	0.080	0.020	!IS ******
DEC 17,88	DEC 16,88	<T 0.08	0.10	<T 0.015	0.035	0.060	0.072	!IS ******
DEC 18,88	DEC 17,88	<T 0.06	<T 0.05	<T 0.010	<T 0.010	0.030	0.020	0.0047
DEC 19,88	DEC 18,88	0.26	0.08	0.045	0.045	0.075	0.168	UG 0.0005
DEC 20,88	DEC 19,88	0.18	0.08	<T 0.020	0.045	0.060	0.102	!IS ******
DEC 21,88	DEC 20,88	0.22	0.15	0.030	0.040	0.090	0.380	!IS ******
DEC 30,88	DEC 21,88	0.20	0.07	<T 0.020	0.035	0.045	0.178	0.0275
DEC 31,88	DEC 30,88	0.30	0.11	0.030	0.030	0.070	<T 0.008	!IS ******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM #14

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES		SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 8,88	JAN 7,88	900	900	****	****	2	0.1	2	31814	2	1		****	EK	
JAN 12,88	JAN 11,88	900	900	****	****	2	4.8	2	31815	2	1		39		XN
JAN 15,88	JAN 14,88	900	900	****	****	2	2.0	2	31816	2	1	U	24	EQ	
JAN 19,88	JAN 18,88	900	900	****	****	2	1.4	2	31817	2	1		90		X
JAN 23,88	JAN 22,88	900	900	****	****	2	2.4	2	31818	2	1		48		N
JAN 26,88	JAN 25,88	900	1400	****	****	2	2.4	2	31819	2	1	U	46	G	
FEB 1,88	JAN 31,88	900	900	****	****	2	7.6	2	31820	2	1		80		
FEB 9,88	FEB 8,88	900	900	****	****	2	0.1	2	31821	2	1		****	EK	
FEB 15,88	FEB 14,88	900	900	****	****	2	3.4	2	31822	2	1		42		N
FEB 18,88	FEB 17,88	900	900	****	****	2	2.2	2	31823	2	1	U	51	G	X
FEB 22,88	FEB 21,88	900	900	****	****	2	6.0	2	31824	2	1	U	59	G	X
MAR 2,88	MAR 1,88	900	900	****	****	2	3.6	2	31825	2	1		77		HCM
MAR 8,88	MAR 7,88	900	900	****	****	2	8.6	2	31826	2	1		87		
MAR 9,88	MAR 8,88	900	900	****	****	2	22.0	2	31827	2	1		48		NHM
MAR 15,88	MAR 14,88	900	900	****	****	2	9.2	2	31828	2	1		30		N
MAR 23,88	MAR 22,88	900	900	****	****	2	5.6	2	31829	2	1		95	Q	
MAR 25,88	MAR 24,88	900	900	****	****	3	12.2	2	31830	2	1		98	Q	
MAR 27,88	MAR 26,88	900	900	****	****	3	8.0	2	31831	2	1		46	Q	NM
MAR 29,88	MAR 28,88	900	900	****	****	3	11.4	2	31832	2	1		96	Q	
APR 4,88	APR 3,88	900	900	****	****	1	****	*	31833	2	1		****	QQ	
MAY 9,88	MAY 8,88	1100	1100	****	****	1	25.0	1	31834	2	1		136	Q	N
MAY 10,88	MAY 9,88	1100	900	****	****	1	10.0	1	31837	2	1		93	Q	
MAY 13,88	MAY 12,88	900	900	****	****	1	15.8	1	31838	2	1		90		
MAY 15,88	MAY 14,88	900	900	****	****	1	4.0	1	31839	2	1		****	EK	
MAY 22,88	MAY 21,88	900	900	****	****	1	3.0	1	31840	2	1		80	Q	H
JUN 2,88	JUN 1,88	900	900	****	****	1	3.0	1	31842	2	1		96	Q	
JUN 8,88	JUN 7,88	900	900	****	****	1	14.4	1	31843	2	1		99	Q	C
JUN 13,88	JUN 12,88	900	900	****	****	1	8.6	1	31844	2	1		96	Q	H
JUN 14,88	JUN 13,88	900	900	****	****	1	19.0	1	31845	2	1		102	Q	
JUN 16,88	JUN 15,88	900	900	****	****	1	5.8	1	31846	2	1	U	32	GQ	
JUN 19,88	JUN 18,88	900	900	****	****	1	3.0	1	31847	2	1		84	Q	H
JUN 22,88	JUN 21,88	900	900	****	****	1	2.0	1	31848	2	1		88	Q	H
JUN 24,88	JUN 23,88	900	900	****	****	1	5.0	1	31849	2	1		98	Q	H
JUN 26,88	JUN 25,88	900	900	****	****	1	6.6	1	31850	2	1		86		HM
JUN 28,88	JUN 27,88	900	900	****	****	1	9.4	1	31851	2	1		93	Q	
JUL 5,88	JUL 4,88	900	900	****	****	1	23.0	1	31852	2	1		88		
JUL 8,88	JUL 7,88	900	900	1500	1530	1	12.4	1	31853	2	1		99	Q	
JUL 11,88	JUL 10,88	900	900	****	****	1	1.4	1	31854	2	1		34	Q	N
JUL 13,88	JUL 12,88	900	900	****	****	1	16.2	1	31855	2	1	U	101	QQ	HM
JUL 15,88	JUL 14,88	900	900	****	****	1	12.8	1	31856	2	1		99	Q	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM #14 PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO 100.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 8,88	JAN 7,88	******	******	******	******	******	******	******	******
JAN 12,88	JAN 11,88	123.0	******	******	******	******	******	******	******
JAN 15,88	JAN 14,88	31.0	******	******	******	******	******	******	******
JAN 19,88	JAN 18,88	81.0	******	******	******	******	******	******	******
JAN 23,88	JAN 22,88	75.0	!IS ******	******	!IS ******	******	!IS ******	!IS ******	!IS ******
JAN 26,88	JAN 25,88	71.0	!IS ******	******	!IR ******	******	!IR ******	!IS ******	!IS ******
FEB 1,88	JAN 31,88	394.0	15.0	******	4.52	******	0.0519	0.75	0.42
FEB 9,88	FEB 8,88	******	******	******	******	******	******	******	******
FEB 15,88	FEB 14,88	92.0	27.0	******	4.47	******	0.0710	1.90	0.76
FEB 18,88	FEB 17,88	73.0	******	******	******	******	******	******	******
FEB 22,88	FEB 21,88	229.0	******	******	******	******	******	******	******
MAR 2,88	MAR 1,88	178.0	14.5	******	UG 6.60	******	0.0202	1.75	0.49
MAR 8,88	MAR 7,88	480.0	8.0	******	D 5.63	******	0.0215	0.85	0.31
MAR 9,88	MAR 8,88	687.0	6.0	******	5.00	******	0.0295	0.40	LG 0.07
MAR 15,88	MAR 14,88	180.0	11.0	******	5.08	******	0.0297	1.00	0.36
MAR 23,88	MAR 22,88	342.0	UG 62.0	******	4.17	******	0.1080	5.50	UG 2.21
MAR 25,88	MAR 24,88	773.0	12.5	******	4.84	******	0.0345	1.45	0.26
MAR 27,88	MAR 26,88	240.0	13.5	******	UG 7.24	******	0.0154	2.10	0.35
MAR 29,88	MAR 28,88	708.0	11.5	******	UG 6.12	******	0.0166	2.10	0.36
APR 4,88	APR 3,88	406.0	22.0	******	4.40	******	0.0642	2.45	0.24
MAY 9,88	MAY 8,88	2182.0	8.5	******	5.00	******	0.0331	0.90	0.17
MAY 10,88	MAY 9,88	600.0	5.5	******	5.22	******	0.0229	0.50	0.14
MAY 13,88	MAY 12,88	916.0	5.0	******	5.23	******	0.0243	0.50	0.12
MAY 15,88	MAY 14,88	******	******	******	******	******	******	******	******
MAY 22,88	MAY 21,88	154.0	UG 57.0	******	4.48	******	UG 0.0659	UG 8.55	UG 2.01
JUN 2,88	JUN 1,88	185.0	UG 32.0	******	4.40	******	UG 0.0712	3.70	0.72
JUN 8,88	JUN 7,88	914.0	D 6.5	******	5.26	******	0.0239	D 0.60	0.11
JUN 13,88	JUN 12,88	531.0	24.0	******	5.15	******	0.0298	3.85	0.74
JUN 14,88	JUN 13,88	1243.0	14.5	******	4.86	******	D 0.0382	1.95	0.35
JUN 16,88	JUN 15,88	121.0	6.0	******	5.09	******	0.0236	0.55	0.12
JUN 19,88	JUN 18,88	163.0	21.0	******	D 6.27	******	0.0210	2.30	0.98
JUN 22,88	JUN 21,88	113.0	10.5	******	5.64	******	0.0204	1.20	0.45
JUN 24,88	JUN 23,88	316.0	11.0	******	5.86	******	0.0198	1.35	0.44
JUN 26,88	JUN 25,88	367.0	10.0	******	6.20	******	0.0154	2.00	0.24
JUN 28,88	JUN 27,88	563.0	9.5	******	4.80	******	0.0336	0.95	0.24
JUL 5,88	JUL 4,88	1307.0	7.0	******	5.87	******	0.0191	0.90	0.18
JUL 8,88	JUL 7,88	792.0	11.0	******	4.83	******	0.0330	1.20	0.19
JUL 11,88	JUL 10,88	31.0	16.0	******	6.26	******	0.0194	1.80	0.59
JUL 13,88	JUL 12,88	1051.0	6.0	******	5.07	******	0.0314	0.80	0.23
JUL 15,88	JUL 14,88	817.0	6.0	******	6.52	******	0.0290	0.80	0.29

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM #14

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 8,88	JAN 7,88	******	******	******	******	******	******	******
JAN 12,88	JAN 11,88	******	******	******	******	******	******	******
JAN 15,88	JAN 14,88	******	******	******	******	******	******	******
JAN 19,88	JAN 18,88	******	******	******	******	******	******	******
JAN 23,88	JAN 22,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******
JAN 26,88	JAN 25,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	!IR ******
FEB 1,88	JAN 31,88	<T 0.06	0.07	<T 0.010	<T 0.010	<T 0.025	0.070	0.0302
FEB 9,88	FEB 8,88	******	******	******	******	******	******	******
FEB 15,88	FEB 14,88	0.22	0.22	0.040	0.025	0.150	0.410	0.0339
FEB 18,88	FEB 17,88	******	******	******	******	******	******	******
FEB 22,88	FEB 21,88	******	******	******	******	******	******	******
MAR 2,88	MAR 1,88	0.28	0.22	0.045	0.045	0.190	0.470	UG 0.0003
MAR 8,88	MAR 7,88	0.22	0.08	<T 0.025	D 0.035	D 0.120	0.300	D 0.0023
MAR 9,88	MAR 8,88	<T 0.08	<T 0.02	<T 0.005	<W 0.005	<T 0.005	0.060	0.0100
MAR 15,88	MAR 14,88	0.22	0.07	0.025	0.030	0.055	0.340	0.0083
MAR 23,88	MAR 22,88	UG 1.18	0.33	0.125	0.120	0.220	1.690	0.0676
MAR 25,88	MAR 24,88	0.16	D 0.08	<T 0.015	0.040	D 0.130	D 0.232	0.0145
MAR 27,88	MAR 26,88	0.90	0.09	0.085	0.170	0.125	0.714	UG 0.0001
MAR 29,88	MAR 28,88	0.60	0.13	0.050	0.110	0.150	0.470	UG 0.0008
APR 4,88	APR 3,88	0.22	0.06	<T 0.020	0.030	0.030	0.122	0.0398
MAY 9,88	MAY 8,88	0.16	<T 0.02	0.025	<T 0.025	<T 0.015	0.094	0.0100
MAY 10,88	MAY 9,88	0.10	<T 0.02	<T 0.020	<T 0.025	<W 0.005	0.098	0.0060
MAY 13,88	MAY 12,88	<T 0.08	<T 0.04	<T 0.015	0.030	<T 0.020	0.140	0.0059
MAY 15,88	MAY 14,88	******	******	******	******	******	******	******
MAY 22,88	MAY 21,88	3.02	0.37	0.390	0.135	0.210	1.670	0.0331
JUN 2,88	JUN 1,88	0.62	0.30	0.125	UG 0.325	0.210	0.696	0.0398
JUN 8,88	JUN 7,88	<T 0.08	0.10	D 0.025	0.035	<T 0.010	D 0.164	0.0055
JUN 13,88	JUN 12,88	0.80	0.15	0.125	0.155	0.050	1.170	0.0071
JUN 14,88	JUN 13,88	0.30	0.06	0.030	0.055	<T 0.015	0.528	0.0138
JUN 16,88	JUN 15,88	0.10	<T 0.04	<T 0.015	0.040	<T 0.015	0.072	0.0081
JUN 19,88	JUN 18,88	0.86	0.25	0.145	0.110	D 0.165	1.100	D 0.0005
JUN 22,88	JUN 21,88	0.50	0.11	0.090	0.065	0.065	0.420	0.0023
JUN 24,88	JUN 23,88	0.46	D 0.12	0.075	D 0.050	0.045	0.536	0.0014
JUN 26,88	JUN 25,88	0.46	0.06	0.125	0.050	UG 0.665	0.258	0.0006
JUN 28,88	JUN 27,88	0.14	0.06	<T 0.020	<T 0.025	0.025	0.234	0.0158
JUL 5,88	JUL 4,88	0.12	<T 0.05	0.025	<T 0.015	<T 0.005	0.390	0.0013
JUL 8,88	JUL 7,88	0.12	0.07	<T 0.015	0.030	<T 0.015	0.294	0.0148
JUL 11,88	JUL 10,88	!IS ******	0.31	!IS ******	!IS ******	!IS ******	0.774	0.0005
JUL 13,88	JUL 12,88	<W 0.02	0.19	<T 0.005	<T 0.005	<T 0.005	0.270	0.0085
JUL 15,88	JUL 14,88	0.14	0.06	0.030	0.030	<T 0.020	0.506	0.0003

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM #14

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JUL 21,88	JUL 20,88	900	900	****	****	1	15.0	1	31857	2	1	98	Q	C
JUL 29,88	JUL 28,88	900	900	****	****	1	12.2	1	31859	2	1	94	Q	
JUL 30,88	JUL 29,88	900	900	****	****	1	4.0	1	31860	2	1	83	CQ	H
AUG 1,88	JUL 31,88	900	900	****	****	1	6.6	1	31861	2	1	86		HM
AUG 2,88	AUG 1,88	900	900	****	****	1	24.6	1	31862	2	1	103	Q	C
AUG 3,88	AUG 2,88	900	900	****	****	1	7.6	1	31865	2	1	95	Q	
AUG 4,88	AUG 3,88	900	900	****	****	1	3.4	1	31866	2	1	87	Q	
AUG 5,88	AUG 4,88	900	900	****	****	1	42.4	1	31867	2	1	102		C
AUG 7,88	AUG 6,88	900	900	****	****	1	7.1	1	31868	2	1	84		H
AUG 8,88	AUG 7,88	900	900	****	****	1	12.6	1	31869	2	1	98		
AUG 14,88	AUG 13,88	900	900	****	****	1	****	1	31870	2	1	101	CD	
AUG 17,88	AUG 16,88	900	900	****	****	1	****	1	31871	2	1	****	P	
AUG 22,88	AUG 21,88	900	900	****	****	1	18.8	1	31872	2	1	96	D	
AUG 23,88	AUG 22,88	900	900	****	****	1	35.0	1	31873	2	1	96	D	
AUG 24,88	AUG 23,88	900	900	****	****	1	3.8	1	31874	2	1	72		
AUG 29,88	AUG 28,88	900	900	****	****	1	11.6	1	31875	2	1	91		
SEP 1,88	AUG 31,88	900	900	****	****	1	34.0	1	31876	2	1	101		N
SEP 2,88	SEP 1,88	900	900	****	****	1	5.2	1	31877	2	1	86		H
SEP 12,88	SEP 11,88	900	900	****	****	1	6.0	1	31878	2	1	U 66	G	H
SEP 16,88	SEP 15,88	900	900	****	****	1	2.4	1	31879	2	1	65		
SEP 19,88	SEP 18,88	900	900	****	****	1	11.2	1	31880	2	1	92		H
SEP 20,88	SEP 19,88	900	900	****	****	1	0.1	1	31881	2	1	****	EK	
SEP 22,88	SEP 21,88	900	900	****	****	1	3.0	1	31882	2	1	68		HCM
SEP 25,88	SEP 24,88	900	900	****	****	1	6.0	1	31883	2	1	89		H
SEP 26,88	SEP 25,88	900	900	****	****	1	0.1	1	31884	2	1	****	EK	
SEP 29,88	SEP 28,88	900	900	****	****	1	5.5	1	31885	2	1	87		
OCT 3,88	OCT 2,88	900	900	****	****	1	4.8	1	31886	2	1	U 6	G	
OCT 17,88	OCT 16,88	900	900	****	****	1	9.0	2	31887	2	1	110		HCM
OCT 19,88	OCT 18,88	900	900	****	****	1	0.1	2	31888	2	1	****	EK	
OCT 21,88	OCT 20,88	900	900	****	****	1	4.2	1	31889	2	1	90		C
OCT 24,88	OCT 23,88	900	900	****	****	3	19.2	2	31890	2	1	91		NH
OCT 25,88	OCT 24,88	900	900	****	****	3	3.8	2	31891	2	1	****	EK	
OCT 28,88	OCT 27,88	900	900	****	****	2	12.8	2	31892	2	1	65		NHM
OCT 31,88	OCT 30,88	900	900	****	****	2	0.1	2	31893	2	1	****	EK	
NOV 1,88	OCT 31,88	900	900	****	****	2	4.2	2	31894	2	1	54		HM
NOV 7,88	NOV 6,88	900	900	****	****	2	8.4	2	31895	2	1	13		NHCM
NOV 10,88	NOV 9,88	900	900	****	****	1	5.8	2	31896	2	1	96		C
NOV 13,88	NOV 12,88	900	900	****	****	3	6.7	2	31897	2	1	102		
NOV 16,88	NOV 15,88	900	900	****	****	3	24.6	2	31898	2	1	83		N
NOV 17,88	NOV 16,88	900	900	****	****	2	16.0	2	31899	2	1	22		NC

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM #14

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM	PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
JUL 21,88	JUL 20,88	946.0		2.5	******		5.17	******		0.0282		0.35		0.06
JUL 29,88	JUL 28,88	740.0		8.0	******		6.62	******		0.0196		1.30		0.35
JUL 30,88	JUL 29,88	214.0		5.0	******		5.74	******		0.0235		1.00		0.19
AUG 1,88	JUL 31,88	364.0		6.0	******		5.69	******		0.0325		0.70		0.25
AUG 2,88	AUG 1,88	1629.0	LG	2.0	******		5.47	******		0.0215		0.30		0.12
AUG 3,88	AUG 2,88	464.0		5.0	******		5.15	******		0.0295		0.70		0.12
AUG 4,88	AUG 3,88	190.0		7.5	******		5.94	******	D	0.0246		0.80		0.43
AUG 5,88	AUG 4,88	2777.0	<T	1.0	******		5.45	******		0.0217	<T	0.10		0.05
AUG 7,88	AUG 6,88	386.0		8.0	******		5.18	******		0.0300		0.95		0.34
AUG 8,88	AUG 7,88	794.0		5.5	******		5.35	******		0.0303		0.70		0.23
AUG 14,88	AUG 13,88	9104.0	<T	1.0	******		5.70	******		0.0205	<T	0.10	<T	0.03
AUG 17,88	AUG 16,88	642.0		10.5	******		5.29	******		0.0309		1.35		0.50
AUG 22,88	AUG 21,88	1163.0		16.0	******		4.57	******	UG	0.0552		2.65		0.30
AUG 23,88	AUG 22,88	2165.0	D	2.5	******		5.22	******		0.0249	D	0.40	<T	0.03
AUG 24,88	AUG 23,88	176.0		3.0	******		5.76	******		0.0212		0.60	<T	0.04
AUG 29,88	AUG 28,88	682.0		5.0	******		5.27	******		0.0263		0.80		0.06
SEP 1,88	AUG 31,88	2208.0		6.5	******		6.47	******		0.0182		1.25		0.24
SEP 2,88	SEP 1,88	287.0		6.5	******		6.11	******		0.0248		1.15		0.28
SEP 12,88	SEP 11,88	254.0	UG	39.0	******	UG	6.90	******		0.0360	UG	7.60		1.23
SEP 16,88	SEP 15,88	101.0		15.0	******		6.37	******		0.0207		3.40		0.50
SEP 19,88	SEP 18,88	661.0	D	14.0	******		4.78	******		0.0467		1.75		0.34
SEP 20,88	SEP 19,88	******		******	******		******	******		******		******		******
SEP 22,88	SEP 21,88	132.0		16.1	******	LG	4.06	******	UG	0.1230		2.20		0.63
SEP 25,88	SEP 24,88	345.0		9.0	******		6.23	******		0.0227		1.55		0.41
SEP 26,88	SEP 25,88	******		******	******		******	******		******		******		******
SEP 29,88	SEP 28,88	307.0		15.5	******		4.49	******	UG	0.0550		2.00		0.19
OCT 3,88	OCT 2,88	20.0	!IS	******	******		5.51	******		0.0204	!IS	******	!IS	******
OCT 17,88	OCT 16,88	635.0		4.0	******		4.96	******		0.0274		0.85	<T	0.02
OCT 19,88	OCT 18,88	******		******	******		******	******		******		******		******
OCT 21,88	OCT 20,88	245.0		8.0	******		4.75	******		0.0353		0.90		0.30
OCT 24,88	OCT 23,88	1121.0		5.0	******		5.25	******		0.0208		0.50		0.20
OCT 25,88	OCT 24,88	******		******	******		******	******		******		******		******
OCT 28,88	OCT 27,88	537.0		6.0	******		6.25	******		0.0164		0.50		0.20
OCT 31,88	OCT 30,88	******		******	******		******	******		******		******		******
NOV 1,88	OCT 31,88	146.0		7.0	******		6.29	******		0.0162		1.10		0.24
NOV 7,88	NOV 6,88	75.0	LG	2.0	******		5.32	******		0.0196		0.25	LG	0.07
NOV 10,88	NOV 9,88	360.0		6.0	******		4.82	******		0.0332		0.70		0.21
NOV 13,88	NOV 12,88	439.0		8.5	******		4.63	******		0.0387		0.55		0.28
NOV 16,88	NOV 15,88	1310.0		11.0	******		4.55	******		0.0464		1.10		0.20
NOV 17,88	NOV 16,88	228.0		3.5	******		5.00	******		0.0255		0.30		0.12

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM #14

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JUL 21,88	JUL 20,88	<T 0.06	<T 0.03	<T 0.010	<T 0.010	<T 0.020	0.040	0.0068
JUL 29,88	JUL 28,88	0.40	0.05	0.070	0.065	0.030	D 0.530	0.0002
JUL 30,88	JUL 29,88	0.18	0.21	0.035	0.070	0.060	0.296	0.0018
AUG 1,88	JUL 31,88	0.14	0.55	<T 0.020	<T 0.015	<T 0.010	0.330	0.0020
AUG 2,88	AUG 1,88	<T 0.06	<T 0.04	<T 0.005	<T 0.015	0.025	0.100	0.0034
AUG 3,88	AUG 2,88	<T 0.06	<W 0.01	<T 0.005	<T 0.015	<T 0.010	0.170	0.0071
AUG 4,88	AUG 3,88	0.18	0.09	0.040	0.070	D 0.040	D 0.540	0.0011
AUG 5,88	AUG 4,88	<W 0.02	<W 0.01	<W 0.005	<T 0.010	<T 0.010	0.050	0.0035
AUG 7,88	AUG 6,88	0.16	0.16	<T 0.020	<T 0.020	<T 0.020	0.330	0.0066
AUG 8,88	AUG 7,88	<T 0.10	0.09	<T 0.005	0.045	0.040	0.276	0.0045
AUG 14,88	AUG 13,88	<W 0.02	<W 0.01	<W 0.005	<W 0.005	<W 0.005	0.046	0.0020
AUG 17,88	AUG 16,88	D 0.24	D 0.24	0.030	D 0.095	0.155	0.576	0.0051
AUG 22,88	AUG 21,88	0.14	0.06	0.030	0.040	<T 0.020	0.586	0.0269
AUG 23,88	AUG 22,88	<W 0.02	<W 0.01	<W 0.005	<T 0.010	<T 0.005	0.076	0.0060
AUG 24,88	AUG 23,88	<T 0.10	<W 0.01	<T 0.020	0.025	0.035	0.120	0.0017
AUG 29,88	AUG 28,88	<T 0.06	<W 0.01	<T 0.020	<T 0.020	0.030	0.120	0.0054
SEP 1,88	AUG 31,88	0.22	<W 0.01	0.040	0.045	<T 0.020	0.536	0.0003
SEP 2,88	SEP 1,88	0.30	<W 0.01	0.070	0.070	0.120	0.406	0.0008
SEP 12,88	SEP 11,88	2.76	0.35	0.495	UG 0.325	UG 0.690	1.570	UG 0.0001
SEP 16,88	SEP 15,88	0.76	0.17	0.155	0.085	0.180	0.876	0.0004
SEP 19,88	SEP 18,88	0.10	<T 0.04	0.025	0.025	<T 0.025	0.350	0.0166
SEP 20,88	SEP 19,88	******	******	******	******	******	******	******
SEP 22,88	SEP 21,88	0.34	0.11	0.030	0.055	0.055	0.634	LQ 0.0871
SEP 25,88	SEP 24,88	0.42	0.06	0.085	0.080	0.050	0.656	0.0006
SEP 26,88	SEP 25,88	******	******	******	******	******	******	******
SEP 29,88	SEP 28,88	<T 0.06	0.07	<T 0.010	0.040	0.030	D 0.242	0.0324
OCT 3,88	OCT 2,88	0.12	!IS ******	0.030	0.030	<T 0.020	0.060	0.0031
OCT 17,88	OCT 16,88	<T 0.08	<T 0.05	<T 0.010	0.025	0.060	0.126	0.0110
OCT 19,88	OCT 18,88	******	******	******	******	******	******	******
OCT 21,88	OCT 20,88	<T 0.08	<T 0.05	<T 0.015	<T 0.015	0.025	0.280	0.0178
OCT 24,88	OCT 23,88	<T 0.06	<W 0.01	<T 0.010	0.060	<T 0.025	D 0.250	0.0056
OCT 25,88	OCT 24,88	******	******	******	******	******	******	******
OCT 28,88	OCT 27,88	0.50	<T 0.05	0.025	0.035	<T 0.020	0.340	0.0006
OCT 31,88	OCT 30,88	******	******	******	******	******	******	******
NOV 1,88	OCT 31,88	0.72	0.07	0.060	0.035	0.035	0.356	0.0005
NOV 7,88	NOV 6,88	0.10	0.06	<T 0.020	<T 0.020	0.050	0.036	0.0048
NOV 10,88	NOV 9,88	<T 0.02	<T 0.04	<T 0.005	<T 0.005	0.025	0.180	0.0151
NOV 13,88	NOV 12,88	<T 0.04	0.10	<W 0.005	<W 0.005	<T 0.010	0.106	0.0234
NOV 16,88	NOV 15,88	<T 0.04	<T 0.05	<W 0.005	<T 0.010	<T 0.020	0.110	0.0282
NOV 17,88	NOV 16,88	<T 0.02	<T 0.04	<W 0.005	<T 0.010	<T 0.010	0.026	0.0100

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM #14

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 20,88	NOV 19,88	900	900	****	****	2	8.1	2	31900	2	1	79		
NOV 27,88	NOV 26,88	900	900	****	****	2	10.4	2	86001	2	1	29		N
DEC 13,88	DEC 11,88	900	900	****	****	2	6.3	2	86002	2	1	8	Q	NZ
DEC 19,88	DEC 18,88	900	900	****	****	2	4.4	2	86003	2	1	20		N
DEC 23,88	DEC 21,88	900	900	****	****	2	7.7	2	86004	2	1	59	Q	Z
DEC 28,88	DEC 27,88	900	900	****	****	2	9.6	2	86005	2	1	58		M

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM #14 PAGE : 8

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 20,88	NOV 19,88	411.0	23.0	******	4.21	******	0.0749	0.50	0.88
NOV 27,88	NOV 26,88	195.0	7.0	******	4.77	******	0.0315	0.50	0.20
DEC 13,88	DEC 11,88	34.0	!IS ******	******	!IS ******	******	!IS ******	!IS ******	!IS ******
DEC 19,88	DEC 18,88	57.0	16.0	******	4.69	******	0.0444	1.15	0.49
DEC 23,88	DEC 21,88	293.0	24.0	******	4.34	******	0.0692	0.85	0.73
DEC 28,88	DEC 27,88	358.0	7.0	******	4.86	******	0.0305	0.30	0.23

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM #14

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
NOV 20,88	NOV 19,88	<T 0.08	0.10	<T 0.010	<W 0.005	<T 0.010	0.076	0.0617
NOV 27,88	NOV 26,88	<T 0.02	<T 0.05	<W 0.005	<W 0.005	<W 0.005	0.050	0.0170
DEC 13,88	DEC 11,88	0.42	!IS ######	0.080	0.055	0.210	0.308	!IS ######
DEC 19,88	DEC 18,88	0.14	0.15	0.030	0.030	0.125	0.224	0.0204
DEC 23,88	DEC 21,88	<T 0.06	0.06	<T 0.010	<T 0.015	0.040	0.154	0.0457
DEC 28,88	DEC 27,88	<T 0.02	<T 0.03	<W 0.005	<W 0.005	<T 0.010	0.022	0.0138

PART VI

SOUTHEASTERN REGION

DAILY PRECIPITATION CHEMISTRY LISTINGS

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 5,88	JAN 4,88	600	900	700	1800	2	2.0	2	54199	2	1	63		
JAN 9,88	JAN 8,88	800	900	1900	600	2	1.2	2	54200	2	1	49		N
JAN 14,88	JAN 13,88	530	600	600	1300	3	0.6	2	54201	2	1	166	C	NC
JAN 18,88	JAN 17,88	600	600	2300	500	1	0.7	2	54202	2	1	216	D	N
JAN 19,88	JAN 18,88	600	600	1000	2100	1	3.6	2	54203	2	1	111		
JAN 20,88	JAN 19,88	600	1000	1000	1000	1	5.9	2	54204	2	1	108		
JAN 21,88	JAN 20,88	1000	900	1000	1300	1	2.3	2	54205	2	1	113		
JAN 24,88	JAN 23,88	530	530	530	1000	2	0.6	2	54206	2	1	93		
JAN 25,88	JAN 24,88	530	600	1300	2400	2	8.5	2	54207	2	1	####	EG	
JAN 29,88	JAN 28,88	530	600	600	1100	2	0.4	2	54208	2	1	15	E	N
JAN 31,88	JAN 30,88	800	900	1900	300	1	1.5	2	54209	2	1	173	C	XN
FEB 1,88	JAN 31,88	900	900	2100	500	1	1.5	2	54210	2	1	134		N
FEB 2,88	FEB 1,88	900	900	2400	900	3	11.2	2	54211	2	1	####	GE	
MAR 10,88	MAR 9,88	600	900	700	1300	1	4.6	2	54212	2	1	99	C	
MAR 13,88	MAR 10,88	900	800	600	800	1	1.6	2	54213	2	1	179		NY3
MAR 14,88	MAR 13,88	800	800	800	1100	3	0.2	2	54214	2	1	####	E	N
MAR 15,88	MAR 14,88	800	815	1300	1600	2	0.4	2	54215	2	1	62		
MAR 19,88	MAR 15,88	815	800	1300	1800	2	1.6	2	54216	2	1	52		Y2
MAR 20,88	MAR 19,88	800	800	830	1100	2	1.3	2	54217	2	1	73		C
MAR 24,88	MAR 23,88	800	800	1900	500	1	2.4	2	54218	2	1	129	CDE	N
MAR 26,88	MAR 25,88	800	745	2000	200	1	15.4	2	54219	2	1	100	C	H
MAR 27,88	MAR 26,88	745	730	30	330	1	1.8	2	54220	2	1	139		N
MAR 28,88	MAR 27,88	730	745	1200	300	2	1.4	2	54221	2	1	51		
APR 4,88	APR 3,88	700	600	800	2100	1	22.0	2	54222	2	1	102		
APR 9,88	APR 8,88	600	800	700	2100	2	6.0	2	54223	2	1	96		N
APR 14,88	APR 13,88	600	600	630	1800	1	1.8	2	54224	2	1	175		N
APR 15,88	APR 14,88	600	545	1500	2300	1	2.5	2	54225	2	1	142		NC
APR 18,88	APR 17,88	700	830	2200	400	1	0.2	2	54226	2	1	468		N
APR 21,88	APR 20,88	800	900	2200	700	2	7.0	1	54227	2	1	120		N
APR 24,88	APR 23,88	700	600	1400	2200	1	1.2	1	54228	2	1	123	C	N
APR 25,88	APR 24,88	600	600	800	1600	1	2.4	1	54229	2	1	100		
APR 27,88	APR 26,88	600	600	1400	1600	1	2.5	1	54230	2	1	101		
APR 29,88	APR 28,88	600	600	1300	600	1	20.2	1	54231	2	1	98		
APR 30,88	APR 29,88	600	900	600	900	1	7.2	1	54232	2	1	94		
MAY 14,88	MAY 13,88	600	600	1200	1600	1	4.4	1	54233	2	1	96	CD	
MAY 16,88	MAY 15,88	600	600	100	500	1	0.7	1	54234	2	1	75		
MAY 17,88	MAY 16,88	600	600	2000	2300	1	7.2	1	54235	2	1	101		
MAY 19,88	MAY 18,88	600	600	1800	####	1	4.0	1	54236	2	1	89		
MAY 20,88	MAY 19,88	600	600	900	500	1	17.2	1	54237	2	1	114		
MAY 21,88	MAY 20,88	600	900	800	1300	1	6.3	1	54238	2	1	96		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 5,88	JAN 4,88	82.0	38.0	******	4.14	******	0.1120	1.90	1.23
JAN 9,88	JAN 8,88	38.0	31.0	******	4.21	******	0.0974	0.70	1.16
JAN 14,88	JAN 13,88	64.0	> 100.0	******	LG 3.55	******	UG 0.3800	8.10	UG 3.46
JAN 18,88	JAN 17,88	97.0	74.0	******	3.81	******	0.2150	3.90	1.88
JAN 19,88	JAN 18,88	258.0	37.0	******	4.09	******	D 0.1160	2.65	0.72
JAN 20,88	JAN 19,88	409.0	21.5	******	4.35	******	0.0727	1.80	0.44
JAN 21,88	JAN 20,88	167.0	60.0	******	3.92	******	0.1720	3.65	1.54
JAN 24,88	JAN 23,88	36.0	56.5	******	3.95	******	0.1590	2.45	1.72
JAN 25,88	JAN 24,88	******	******	******	******	******	******	******	******
JAN 29,88	JAN 28,88	4.0	******	******	******	******	******	******	******
JAN 31,88	JAN 30,88	167.0	******	******	******	******	******	******	******
FEB 1,88	JAN 31,88	129.0	73.0	******	3.83	******	0.1990	5.35	1.44
FEB 2,88	FEB 1,88	******	******	******	******	******	******	******	******
MAR 10,88	MAR 9,88	292.0	32.0	******	4.61	******	0.0569	4.60	0.91
MAR 13,88	MAR 10,88	184.0	45.5	******	4.15	******	0.1070	3.75	1.18
MAR 14,88	MAR 13,88	******	******	******	******	******	******	******	******
MAR 15,88	MAR 14,88	16.0	25.5	******	4.52	******	0.0563	2.45	0.48
MAR 19,88	MAR 15,88	54.0	72.0	******	4.03	******	0.1410	5.70	2.05
MAR 20,88	MAR 19,88	61.0	19.5	******	4.63	******	0.0434	0.45	0.60
MAR 24,88	MAR 23,88	199.0	******	******	******	******	******	******	******
MAR 26,88	MAR 25,88	992.0	13.0	******	4.95	******	D 0.0328	1.50	0.39
MAR 27,88	MAR 26,88	161.0	38.5	******	4.24	******	0.0877	2.20	1.31
MAR 28,88	MAR 27,88	46.0	13.0	******	UG 5.65	******	0.0204	2.00	0.44
APR 4,88	APR 3,88	1445.0	29.5	4.25	4.29	******	0.0778	2.55	0.41
APR 9,88	APR 8,88	371.0	16.0	4.51	4.60	******	0.0449	1.60	0.24
APR 14,88	APR 13,88	203.0	75.0	3.83	3.87	******	0.1770	4.65	1.60
APR 15,88	APR 14,88	228.0	> 100.0	LG 3.55	LG 3.58	******	UG 0.3380	UG 13.00	UG 3.34
APR 18,88	APR 17,88	60.0	48.5	******	UG 7.32	******	LG 0.0164	7.05	1.83
APR 21,88	APR 20,88	540.0	20.5	******	4.59	******	D 0.0569	1.35	0.72
APR 24,88	APR 23,88	95.0	54.5	******	4.10	******	0.1270	6.00	1.00
APR 25,88	APR 24,88	154.0	28.0	******	4.33	******	0.0793	2.70	0.36
APR 27,88	APR 26,88	162.0	36.5	******	4.59	******	0.0578	4.55	1.23
APR 29,88	APR 28,88	1275.0	24.0	******	4.47	******	0.0658	2.05	0.50
APR 30,88	APR 29,88	436.0	13.5	******	D 4.87	******	0.0400	1.50	0.24
MAY 14,88	MAY 13,88	273.0	44.0	4.37	4.46	******	0.0663	7.55	1.40
MAY 16,88	MAY 15,88	34.0	!IS ******	******	!IS ******	******	!IS ******	10.40	1.79
MAY 17,88	MAY 16,88	469.0	45.5	4.02	4.07	******	0.1210	5.05	0.70
MAY 19,88	MAY 18,88	229.0	16.5	4.40	4.49	******	0.0528	1.80	0.35
MAY 20,88	MAY 19,88	1261.0	LG 3.5	5.20	D 5.49	******	0.0209	0.60	0.09
MAY 21,88	MAY 20,88	391.0	LG 4.0	4.99	5.13	******	0.0259	LG 0.36	0.13

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11 PAGE : 3

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 5,88	JAN 4,88	0.54	0.60	0.090	<T 0.020	0.140	0.210	0.0724
JAN 9,88	JAN 8,88	!IS ******	0.42	!IS ******	!IS ******	!IS ******	D 0.250	0.0617
JAN 14,88	JAN 13,88	1.00	1.46	0.135	0.035	UG 0.690	0.590	LG 0.2818
JAN 18,88	JAN 17,88	0.26	0.64	0.035	<T 0.020	0.310	0.330	0.1549
JAN 19,88	JAN 18,88	<T 0.04	0.10	<W 0.005	<T 0.010	<T 0.020	0.230	0.0813
JAN 20,88	JAN 19,88	0.12	0.08	<T 0.005	<T 0.010	0.025	0.130	0.0447
JAN 21,88	JAN 20,88	0.48	0.30	0.045	0.025	0.070	0.390	0.1202
JAN 24,88	JAN 23,88	!IS ******	0.74	!IS ******	!IS ******	!IS ******	0.210	0.1122
JAN 25,88	JAN 24,88	******	******	******	******	******	******	******
JAN 29,88	JAN 28,88	******	******	******	******	******	******	******
JAN 31,88	JAN 30,88	******	******	******	******	******	******	******
FEB 1,88	JAN 31,88	0.16	0.80	0.050	<T 0.020	0.420	0.570	0.1479
FEB 2,88	FEB 1,88	******	******	******	******	******	******	******
MAR 10,88	MAR 9,88	1.82	0.46	0.285	0.085	0.260	0.180	0.0245
MAR 13,88	MAR 10,88	0.80	0.21	0.135	0.085	0.120	0.330	0.0708
MAR 14,88	MAR 13,88	******	******	******	******	******	******	******
MAR 15,88	MAR 14,88	0.56	0.58	0.065	0.055	0.365	!IS ******	0.0302
MAR 19,88	MAR 15,88	0.90	1.02	UG 0.650	0.060	0.265	0.940	0.0933
MAR 20,88	MAR 19,88	0.20	0.28	0.085	<W 0.005	0.135	0.030	0.0234
MAR 24,88	MAR 23,88	******	******	******	******	******	******	******
MAR 26,88	MAR 25,88	0.28	0.11	0.055	0.035	0.065	0.280	0.0112
MAR 27,88	MAR 26,88	0.44	0.11	0.110	0.030	0.050	0.560	0.0575
MAR 28,88	MAR 27,88	0.42	0.16	0.280	<T 0.020	0.085	!IS ******	UG 0.0022
APR 4,88	APR 3,88	<T 0.04	0.16	<T 0.025	<T 0.010	0.050	0.180	0.0513
APR 9,88	APR 8,88	<W 0.02	<T 0.04	<T 0.005	<T 0.015	<T 0.020	0.190	0.0251
APR 14,88	APR 13,88	0.38	0.28	0.050	<T 0.015	0.050	0.450	0.1349
APR 15,88	APR 14,88	1.14	0.77	0.225	0.055	0.285	1.720	LG 0.2630
APR 18,88	APR 17,88	UG 3.52	0.44	UG 0.790	0.150	0.150	1.380	UG 0.0000
APR 21,88	APR 20,88	0.24	0.05	D 0.045	<T 0.015	<T 0.025	0.425	0.0257
APR 24,88	APR 23,88	0.86	0.20	0.145	0.030	0.075	0.675	0.0794
APR 25,88	APR 24,88	0.12	<T 0.03	<T 0.010	<T 0.015	<T 0.015	0.225	0.0468
APR 27,88	APR 26,88	0.90	0.25	0.185	0.035	0.035	1.350	0.0257
APR 29,88	APR 28,88	<T 0.08	0.05	<T 0.015	<T 0.010	<T 0.015	0.425	0.0339
APR 30,88	APR 29,88	<T 0.06	<T 0.04	<T 0.015	<T 0.020	0.030	D 0.300	D 0.0135
MAY 14,88	MAY 13,88	D 2.16	0.28	D 0.300	D 0.255	0.070	1.230	0.0347
MAY 16,88	MAY 15,88	1.12	0.35	0.185	0.190	0.105	0.886	!IS ******
MAY 17,88	MAY 16,88	0.26	0.08	0.035	0.025	0.035	0.744	0.0851
MAY 19,88	MAY 18,88	0.24	0.05	D 0.040	<T 0.020	<T 0.020	0.180	0.0324
MAY 20,88	MAY 19,88	<T 0.04	<W 0.01	<W 0.005	<T 0.010	<T 0.015	0.230	D 0.0032
MAY 21,88	MAY 20,88	<W 0.02	<T 0.01	<W 0.005	<T 0.010	<T 0.010	0.116	0.0074

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JUN 23,88	JUN 22,88	800	800	900	1200	1	7.5	1	54239	2	1	82	C	J
JUN 26,88	JUN 25,88	800	800	530	1300	1	4.8	1	54240	2	1	103		
JUN 29,88	JUN 28,88	800	900	1000	1200	1	3.5	1	54241	2	1	106		H
JUL 1,88	JUN 30,88	600	1000	900	1100	1	29.6	1	54242	2	1	105		
JUL 12,88	JUL 11,88	600	600	1400	1600	1	****	1	54243	2	1	****		
JUL 14,88	JUL 13,88	800	800	400	730	1	****	1	54244	2	1	****		
JUL 18,88	JUL 17,88	600	600	630	1100	1	12.0	1	54245	2	1	104		
JUL 19,88	JUL 18,88	600	600	2400	400	1	****	1	54246	2	1	****		
JUL 20,88	JUL 19,88	600	600	1400	1800	1	5.6	1	54247	2	1	101		
JUL 22,88	JUL 21,88	600	600	730	1400	1	1.6	1	54249	2	1	80		
JUL 24,88	JUL 23,88	600	600	****	****	1	17.8	1	54250	2	1	104		
JUL 26,88	JUL 25,88	600	800	800	700	1	1.2	1	54251	2	1	78	C	
AUG 7,88	AUG 6,88	600	900	630	1200	1	9.0	1	54252	2	1	107		
AUG 14,88	AUG 13,88	800	900	1730	2330	1	18.8	1	54253	2	1	102		
AUG 18,88	AUG 17,88	900	900	1100	1130	1	1.8	1	54254	2	1	84		
AUG 21,88	AUG 20,88	900	900	1700	1900	1	5.5	1	54255	2	1	99		HH
AUG 24,88	AUG 23,88	900	800	2000	800	1	9.4	1	54256	2	1	98		
AUG 25,88	AUG 24,88	800	800	800	400	1	21.8	1	54257	2	1	104		
AUG 26,88	AUG 25,88	800	800	1700	1900	1	25.0	1	54258	2	1	U 169	P	H
AUG 27,88	AUG 26,88	800	800	1700	1830	1	21.0	1	54259	2	1	101		HH
AUG 28,88	AUG 27,88	800	815	2400	100	1	1.8	1	54260	2	1	91		
AUG 29,88	AUG 28,88	815	900	815	1500	1	6.2	1	54261	2	1	99		
AUG 31,88	AUG 30,88	600	600	1500	1700	1	0.6	1	54263	2	1	104		
SEP 4,88	SEP 3,88	800	900	2300	500	1	3.0	1	54264	2	1	70		
SEP 5,88	SEP 4,88	900	900	900	100	1	3.8	1	54265	2	1	97		
SEP 13,88	SEP 12,88	800	600	1400	500	1	9.0	1	54266	2	1	96	CD	
SEP 18,88	SEP 17,88	600	900	700	2100	1	2.6	1	54267	2	1	76		
SEP 21,88	SEP 20,88	700	600	830	930	1	2.4	1	54268	2	1	87	A	
SEP 22,88	SEP 21,88	600	600	1430	1530	1	1.6	1	54269	2	1	93		
SEP 23,88	SEP 22,88	600	900	2400	500	1	9.0	1	54270	2	1	99		
SEP 28,88	SEP 27,88	800	600	****	****	1	8.6	1	54271	2	1	102		
OCT 2,88	OCT 1,88	700	600	****	****	1	2.4	1	54272	2	1	78		
OCT 3,88	OCT 2,88	600	600	1000	100	1	38.6	1	54273	2	1	82		
OCT 6,88	OCT 5,88	600	900	600	1200	1	9.6	1	54275	2	1	91		
OCT 18,88	OCT 17,88	700	730	2400	730	1	28.6	1	54276	2	1	34		N
OCT 19,88	OCT 18,88	730	830	730	1000	1	3.8	1	54277	2	1	84		HH
OCT 22,88	OCT 21,88	800	930	1700	930	1	38.2	1	54278	2	1	110		NHH
OCT 23,88	OCT 22,88	930	600	930	100	2	19.1	2	54279	2	1	89		NC
OCT 24,88	OCT 23,88	600	600	1300	100	1	0.6	2	54280	2	1	72		
OCT 25,88	OCT 24,88	600	900	1000	1530	1	11.3	2	54281	2	1	108	Q	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
JUN 23,88	JUN 22,88	397.0		18.0		5.19	UG	6.16		******		0.0269		3.60		0.68
JUN 26,88	JUN 25,88	317.0		40.0		******		4.09		******		0.1120		4.85		0.74
JUN 29,88	JUN 28,88	239.0		5.0		******	UG	5.75		******		0.0196		0.85		0.09
JUL 1,88	JUN 30,88	1999.0	LG	2.0		******	UG	5.99		******		0.0191	LG	0.30	LG	0.07
JUL 12,88	JUL 11,88	815.0		74.0		******		3.79		******		0.2040		9.55		0.83
JUL 14,88	JUL 13,88	859.0		32.5		******		4.19		******		0.0949		4.25		0.50
JUL 18,88	JUL 17,88	800.0		5.0		******		5.01		******		0.0276		0.55		0.12
JUL 19,88	JUL 18,88	91.0		44.0		******		4.18		******		0.1070		6.45		1.10
JUL 20,88	JUL 19,88	365.0		43.5		******		4.08		******		0.1210		5.05		0.79
JUL 22,88	JUL 21,88	83.0		24.0		******		4.32		******		0.0786		2.25		0.65
JUL 24,88	JUL 23,88	1190.0		13.5		******		4.53		******		0.0536		1.15		0.27
JUL 26,88	JUL 25,88	60.0		90.0		******		3.73		******		0.2390		9.40		1.67
AUG 7,88	AUG 6,88	622.0		56.0		******		3.94		******		0.1540		6.80		0.62
AUG 14,88	AUG 13,88	1239.0		33.0		******		4.31		******		0.0954		4.50		0.64
AUG 18,88	AUG 17,88	98.0		18.0		4.74	!IS	******		******	!IS	******		2.70		0.55
AUG 21,88	AUG 20,88	351.0		16.0		4.64		4.73		******		0.0430		2.90		0.14
AUG 24,88	AUG 23,88	591.0		54.0		3.86		3.89		******		0.1590		4.30		0.90
AUG 25,88	AUG 24,88	1458.0		32.5		4.08		4.14		******		0.0949		3.15		0.34
AUG 26,88	AUG 25,88	2717.0		18.0	D	4.51		4.59		******		0.0464	D	1.10		0.17
AUG 27,88	AUG 26,88	1366.0		7.0		4.95		5.12		******		0.0301	<T	0.10		0.11
AUG 28,88	AUG 27,88	106.0		94.0		3.61		3.69		******		0.2710		8.65		1.45
AUG 29,88	AUG 28,88	395.0		34.0		4.08		4.19		******		0.1060		3.80		0.30
AUG 31,88	AUG 30,88	40.0		8.0		******	!IS	******		******	!IS	******	<W	0.05		0.37
SEP 4,88	SEP 3,88	135.0		94.5		3.72		3.67		******		0.2720		9.90		1.32
SEP 5,88	SEP 4,88	238.0		58.0		3.91		3.87		******		0.1760		5.75		0.57
SEP 13,88	SEP 12,88	559.0		32.0		4.23	D	4.24		******		0.0804		3.60		0.37
SEP 18,88	SEP 17,88	127.0	D	89.0	D	3.77	D	3.75		******		0.1990	D	7.20		1.49
SEP 21,88	SEP 20,88	134.0		45.0	D	4.06		4.11		******	D	0.1070	D	4.40		0.61
SEP 22,88	SEP 21,88	96.0		12.5		4.64		4.77		******		0.0414		1.80		0.14
SEP 23,88	SEP 22,88	575.0	D	27.5		4.22		4.24		******		0.0795		2.20		0.38
SEP 28,88	SEP 27,88	563.0		51.0		******		4.01		******		0.1210		7.70		1.18
OCT 2,88	OCT 1,88	120.0		73.0		******		3.78		******		0.1960		9.15		1.16
OCT 3,88	OCT 2,88	2050.0		22.5		******		4.28		******		0.0729		2.76		0.27
OCT 6,88	OCT 5,88	566.0		23.0		******		4.29		******		0.0715		1.59		0.59
OCT 18,88	OCT 17,88	633.0		19.0		******		4.38		******		0.0620		3.15	<T	0.02
OCT 19,88	OCT 18,88	207.0		19.0		******		4.44		******		0.0629		2.95		0.34
OCT 22,88	OCT 21,88	2718.0	LG	3.0		******		5.16		******		0.0245	LG	0.50		0.09
OCT 23,88	OCT 22,88	1092.0	LG	3.0		******		4.58		******		0.0458		0.75		0.19
OCT 24,88	OCT 23,88	28.0	!IS	******		******	!SM	******		******	!SM	******	!IS	******	!IS	******
OCT 25,88	OCT 24,88	789.0		13.0		******		4.56		******	D	0.0504		2.20		0.29

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JUN 23,88	JUN 22,88	1.00	0.16	0.210	0.095	0.045	0.928	UG 0.0007
JUN 26,88	JUN 25,88	0.58	0.18	0.090	0.075	0.035	0.534	0.0813
JUN 29,88	JUN 28,88	0.38	<T 0.02	0.040	<T 0.025	<T 0.005	0.078	UG 0.0018
JUL 1,88	JUN 30,88	0.14	<T 0.02	<T 0.010	<T 0.015	<T 0.010	0.090	UG 0.0010
JUL 12,88	JUL 11,88	0.54	0.18	0.055	0.055	<T 0.020	0.746	0.1622
JUL 14,88	JUL 13,88	0.16	0.10	0.045	0.030	<T 0.020	0.630	0.0646
JUL 18,88	JUL 17,88	<T 0.04	<T 0.02	<T 0.005	<T 0.010	<T 0.015	0.120	0.0098
JUL 19,88	JUL 18,88	0.66	0.22	0.110	0.125	0.075	1.460	0.0661
JUL 20,88	JUL 19,88	0.28	0.22	0.035	0.035	<T 0.025	0.740	0.0832
JUL 22,88	JUL 21,88	0.16	0.10	0.030	<T 0.015	<T 0.025	0.476	0.0479
JUL 24,88	JUL 23,88	<T 0.02	0.09	<W 0.005	0.040	<T 0.025	0.116	0.0295
JUL 26,88	JUL 25,88	0.58	0.32	0.105	0.080	0.030	1.100	0.1862
AUG 7,88	AUG 6,88	0.24	0.12	0.055	0.040	<T 0.020	0.560	0.1148
AUG 14,88	AUG 13,88	0.48	0.19	0.075	0.035	0.070	0.756	0.0490
AUG 18,88	AUG 17,88	!IS ******	<W 0.01	!IS ******	!IS ******	!IS ******	0.876	!IS ******
AUG 21,88	AUG 20,88	0.72	<T 0.04	0.115	0.030	0.035	0.366	0.0186
AUG 24,88	AUG 23,88	0.16	0.98	0.035	<T 0.020	0.035	0.350	0.1288
AUG 25,88	AUG 24,88	<T 0.06	<W 0.01	<T 0.015	<T 0.025	<T 0.015	0.390	0.0724
AUG 26,88	AUG 25,88	0.10	UG 1.39	0.035	0.025	<T 0.005	0.320	0.0257
AUG 27,88	AUG 26,88	0.16	<W 0.01	<T 0.015	<T 0.010	<W 0.005	0.300	0.0076
AUG 28,88	AUG 27,88	!IS ******	0.33	!IS ******	!IS ******	!IS ******	0.466	0.2042
AUG 29,88	AUG 28,88	<T 0.06	<T 0.03	<T 0.010	0.050	<W 0.005	0.640	0.0646
AUG 31,88	AUG 30,88	0.44	<W 0.01	0.070	0.035	0.035	0.300	!IS ******
SEP 4,88	SEP 3,88	0.72	0.28	0.120	0.030	<T 0.020	0.496	0.2138
SEP 5,88	SEP 4,88	<T 0.04	<W 0.01	<T 0.010	<T 0.015	<W 0.005	0.300	0.1349
SEP 13,88	SEP 12,88	0.26	0.14	0.045	0.050	0.045	0.370	D 0.0575
SEP 18,88	SEP 17,88	0.56	0.28	0.065	0.045	0.040	0.720	D 0.1778
SEP 21,88	SEP 20,88	0.32	0.22	0.055	D 0.045	D 0.125	D 0.430	0.0776
SEP 22,88	SEP 21,88	0.20	<T 0.02	<T 0.020	<T 0.015	<W 0.005	!IS ******	0.0170
SEP 23,88	SEP 22,88	<T 0.04	<T 0.05	<W 0.005	<W 0.005	<W 0.005	0.186	0.0575
SEP 28,88	SEP 27,88	0.98	0.39	0.170	0.050	D 0.035	0.846	0.0977
OCT 2,88	OCT 1,88	0.54	0.68	0.115	0.050	UG 0.270	0.740	0.1660
OCT 3,88	OCT 2,88	<T 0.04	0.08	<T 0.010	<T 0.010	0.035	0.276	0.0525
OCT 6,88	OCT 5,88	<T 0.04	0.04	<T 0.010	<T 0.010	<T 0.010	0.230	0.0513
OCT 18,88	OCT 17,88	0.16	0.24	0.035	0.030	0.040	0.210	0.0417
OCT 19,88	OCT 18,88	<T 0.08	0.21	<T 0.015	0.070	0.035	0.256	0.0363
OCT 22,88	OCT 21,88	<W 0.02	<W 0.01	<W 0.005	<W 0.005	<T 0.005	LQ 0.036	0.0069
OCT 23,88	OCT 22,88	<W 0.02	<W 0.01	<W 0.005	<T 0.005	<T 0.010	LQ 0.036	0.0263
OCT 24,88	OCT 23,88	!SM ******	!IS ******	!SM ******	!SM ******	!SM ******	!SM ******	!SM ******
OCT 25,88	OCT 24,88	0.14	0.15	0.025	<T 0.020	0.115	D 0.200	0.0275

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11 PAGE : 7

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
OCT 26,88	OCT 25,88	900	900	1400	1600	1	0.2	2	54282	2	1	101		N
OCT 27,88	OCT 26,88	900	900	1200	1500	1	0.4	2	54283	2	1	187		N
OCT 28,88	OCT 27,88	900	1100	730	1030	1	4.8	2	54284	2	1	122		N
NOV 2,88	NOV 1,88	700	600	1700	1100	3	10.2	2	54285	2	1	124		
NOV 3,88	NOV 2,88	600	600	600	1000	3	17.3	3	54286	2	1	95		N
NOV 5,88	NOV 4,88	800	900	100	700	1	0.6	2	54287	2	1	200		N
NOV 6,88	NOV 5,88	900	830	1800	300	1	20.0	2	54288	2	1	64		NC
NOV 7,88	NOV 6,88	830	730	1800	730	1	4.6	2	54290	2	1	104		
NOV 8,88	NOV 7,88	730	740	730	900	1	0.6	2	54291	2	1	70		
NOV 9,88	NOV 8,88	740	750	900	2300	1	7.0	2	54292	2	1	99	Q	
NOV 11,88	NOV 10,88	800	1000	900	1400	1	2.6	2	54293	2	1	132		N
NOV 14,88	NOV 13,88	700	940	730	1900	1	7.5	2	54294	2	1	116		
NOV 17,88	NOV 16,88	700	900	1630	2300	1	1.6	2	54295	2	1	187		N
NOV 21,88	NOV 20,88	700	600	630	2200	3	20.2	2	54296	2	1	96		N
NOV 28,88	NOV 27,88	700	900	1700	2300	1	5.0	2	54297	2	1	135		N
DEC 1,88	NOV 30,88	800	900	1400	1600	1	0.4	2	54298	2	1	308		N
DEC 3,88	DEC 2,88	700	1100	730	1000	2	1.2	2	54299	2	1	41		N
DEC 14,88	DEC 13,88	1100	600	1400	2400	2	1.8	2	54300	2	1	99		C
DEC 15,88	DEC 14,88	600	600	1600	2300	2	4.4	2	54301	2	1	80		C
DEC 17,88	DEC 16,88	800	900	1900	300	2	0.3	2	54302	2	1	57		NC
DEC 18,88	DEC 17,88	900	900	1500	2100	2	1.4	2	54303	2	1	74		C
DEC 21,88	DEC 20,88	800	1000	1500	2300	1	2.3	2	54304	2	1	158		NC
DEC 24,88	DEC 23,88	600	1000	700	1000	3	6.2	2	54305	2	1	85		C
DEC 25,88	DEC 24,88	1000	1000	1600	2200	1	5.9	2	54306	2	1	106		C
DEC 28,88	DEC 27,88	800	1000	1200	1000	3	12.0	2	54307	2	1	92		C
DEC 29,88	DEC 28,88	1000	900	1000	1800	2	4.4	2	54308	2	1	80		C

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

PAGE : 8

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
OCT 26,88	OCT 25,88	13.0	!IS ******	******	5.09	******	0.0265	1.05	0.12
OCT 27,88	OCT 26,88	48.0	11.5	******	!IS ******	******	!IS ******	1.75	0.35
OCT 28,88	OCT 27,88	377.0	25.0	******	4.26	******	0.0765	2.68	0.42
NOV 2,88	NOV 1,88	812.0	33.5	******	4.09	******	0.1000	2.25	0.65
NOV 3,88	NOV 2,88	1057.0	7.0	******	4.75	******	0.0332	0.65	0.18
NOV 5,88	NOV 4,88	77.0	19.0	******	4.42	******	0.0550	1.50	0.32
NOV 6,88	NOV 5,88	830.0	6.0	4.72	4.72	******	0.0361	0.55	0.17
NOV 7,88	NOV 6,88	308.0	22.0	4.29	4.26	******	0.0721	1.70	0.50
NOV 8,88	NOV 7,88	27.0	!IS ******	******	4.43	******	0.0574	!IS ******	!IS ******
NOV 9,88	NOV 8,88	445.0	22.5	4.28	4.25	******	0.0748	1.60	0.51
NOV 11,88	NOV 10,88	221.0	43.5	4.01	4.01	******	0.1180	4.70	0.73
NOV 14,88	NOV 13,88	560.0	21.0	4.27	4.28	******	0.0713	1.95	0.39
NOV 17,88	NOV 16,88	192.0	42.0	4.00	4.01	******	0.1180	4.15	0.96
NOV 21,88	NOV 20,88	1244.0	10.0	4.56	4.59	******	0.0429	1.00	0.29
NOV 28,88	NOV 27,88	435.0	42.5	4.05	4.10	******	0.1130	3.45	0.86
DEC 1,88	NOV 30,88	79.0	53.0	******	4.05	******	0.1320	3.90	2.10
DEC 3,88	DEC 2,88	32.0	!IS ******	******	4.88	******	0.0286	!IS ******	!IS ******
DEC 14,88	DEC 13,88	115.0	20.0	******	4.32	******	0.0733	0.70	1.01
DEC 15,88	DEC 14,88	226.0	23.0	******	4.22	******	0.0897	1.55	1.00
DEC 17,88	DEC 16,88	11.0	11.0	******	4.48	******	0.0545	<T 0.15	0.57
DEC 18,88	DEC 17,88	67.0	40.0	******	3.97	******	0.1540	0.60	1.83
DEC 21,88	DEC 20,88	233.0	52.0	******	3.91	******	0.1830	6.85	1.41
DEC 24,88	DEC 23,88	341.0	13.0	******	4.63	******	0.0462	2.25	0.46
DEC 25,88	DEC 24,88	403.0	13.5	******	4.41	******	0.0603	1.50	0.41
DEC 28,88	DEC 27,88	715.0	11.5	******	4.49	******	0.0543	1.30	0.27
DEC 29,88	DEC 28,88	226.0	8.0	******	4.73	******	0.0398	0.55	0.42

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11 PAGE : 9

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
OCT 26,88	OCT 25,88	!IS ******	<T 0.05	!IS ******	!IS ******	!IS ******	0.176	0.0081
OCT 27,88	OCT 26,88	0.34	0.24	<T 0.020	<T 0.020	<T 0.020	0.240	!IS ******
OCT 28,88	OCT 27,88	0.12	0.20	<T 0.020	<T 0.020	<T 0.025	0.176	0.0550
NOV 2,88	NOV 1,88	0.16	0.16	<T 0.020	<T 0.015	0.025	0.276	0.0813
NOV 3,88	NOV 2,88	<T 0.02	<W 0.01	<W 0.005	<T 0.005	<T 0.005	0.086	0.0178
NOV 5,88	NOV 4,88	<T 0.08	1.00	0.060	<T 0.020	0.485	0.096	0.0380
NOV 6,88	NOV 5,88	<T 0.02	0.08	<W 0.005	<T 0.005	<T 0.025	0.030	0.0191
NOV 7,88	NOV 6,88	<T 0.06	0.07	<T 0.010	<T 0.010	<T 0.015	0.216	0.0550
NOV 8,88	NOV 7,88	<T 0.04	!IS ******	<T 0.005	<W 0.005	0.075	0.036	0.0372
NOV 9,88	NOV 8,88	<T 0.06	0.15	<T 0.010	<T 0.005	<T 0.015	0.196	0.0562
NOV 11,88	NOV 10,88	0.52	0.52	0.060	0.040	0.270	0.296	0.0977
NOV 14,88	NOV 13,88	<T 0.04	0.27	<T 0.020	<T 0.010	0.135	0.200	0.0525
NOV 17,88	NOV 16,88	0.38	0.29	0.045	0.040	0.090	0.490	0.0977
NOV 21,88	NOV 20,88	<T 0.06	<T 0.03	<T 0.010	<T 0.010	<T 0.010	0.130	0.0257
NOV 28,88	NOV 27,88	0.38	<W 0.01	0.055	0.045	0.170	0.430	0.0794
DEC 1,88	NOV 30,88	1.46	0.93	0.170	0.100	0.135	0.876	0.0891
DEC 3,88	DEC 2,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	0.086	0.0132
DEC 14,88	DEC 13,88	0.68	0.84	0.125	<T 0.025	0.230	0.066	0.0479
DEC 15,88	DEC 14,88	0.20	0.19	0.025	<T 0.020	0.055	0.380	0.0603
DEC 17,88	DEC 16,88	0.10	0.35	<T 0.025	<T 0.020	0.160	LG 0.026	0.0331
DEC 18,88	DEC 17,88	0.46	1.53	0.070	<T 0.020	0.505	0.106	0.1072
DEC 21,88	DEC 20,88	1.02	1.08	0.135	0.085	0.505	0.556	0.1230
DEC 24,88	DEC 23,88	0.64	0.27	0.090	0.030	0.175	0.190	0.0234
DEC 25,88	DEC 24,88	0.12	0.07	<T 0.010	<T 0.020	<T 0.015	0.170	0.0389
DEC 28,88	DEC 27,88	<T 0.10	0.23	<T 0.015	<T 0.010	0.095	0.116	0.0324
DEC 29,88	DEC 28,88	<T 0.04	0.12	<T 0.005	<T 0.015	0.040	0.246	0.0186

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 9,88	JAN 8,88	800	800	900	1900	2	5.1	2	91806	2	1	107		
JAN 13,88	JAN 12,88	800	800	350	415	1	2.0	2	91807	2	1	72		C
JAN 18,88	JAN 17,88	900	900	1600	2359	1	0.3	2	91809	2	1	****	E	N
JAN 19,88	JAN 18,88	900	800	1100	1700	1	3.5	2	91811	2	1	92		
JAN 20,88	JAN 19,88	800	800	****	****	1	18.5	2	91813	2	1	38		N
JAN 25,88	JAN 24,88	800	800	800	2200	2	2.0	2	91816	2	1	****	EFIK	
JAN 29,88	JAN 28,88	800	800	****	****	2	0.7	2	91817	2	1	64		
JAN 31,88	JAN 30,88	800	800	1500	2100	1	4.6	2	91819	2	1	51		
FEB 2,88	FEB 1,88	800	800	1900	2400	3	10.0	2	91821	2	1	49		N
FEB 8,88	FEB 7,88	800	800	****	****	2	7.3	2	91823	2	1	5		N
FEB 10,88	FEB 9,88	800	800	900	1630	2	4.4	2	91825	2	1	25		N
FEB 13,88	FEB 11,88	800	800	****	****	2	28.5	2	91827	2	1	38		NY2
FEB 16,88	FEB 14,88	800	800	****	****	1	11.5	2	91829	2	1	73	C	Y2
FEB 20,88	FEB 18,88	800	800	800	2100	2	24.7	2	91831	2	1	75		Y2
MAR 1,88	FEB 29,88	800	800	1	600	2	1.1	2	91833	2	1	720		NZ
MAR 20,88	MAR 11,88	800	800	****	****	2	6.1	2	91835	2	1	47		NZ
APR 4,88	APR 2,88	800	800	100	1800	1	43.2	2	91837	2	1	55		Y2
APR 5,88	APR 4,88	800	800	1400	1600	1	0.5	2	91839	2	1	137		N
APR 9,88	APR 7,88	800	800	300	2300	3	2.7	2	91841	2	1	121		NY2
APR 15,88	APR 14,88	800	800	1200	1800	1	4.0	2	91844	2	1	149		N
APR 18,88	APR 17,88	800	800	2400	200	1	0.2	2	91848	2	1	351		N
APR 21,88	APR 20,88	800	800	2300	100	2	6.4	2	91850	2	1	107		
APR 23,88	APR 22,88	800	800	2300	2330	1	4.2	2	91851	2	1	79		
APR 29,88	APR 27,88	800	800	2000	2300	1	14.4	1	91853	2	1	92		Y2
APR 30,88	APR 29,88	800	800	****	****	1	6.2	1	91855	2	1	86		
MAY 10,88	MAY 9,88	800	800	1630	2100	1	0.6	1	91857	2	1	54	C	
MAY 14,88	MAY 13,88	800	800	1600	2400	1	8.7	1	91859	2	1	94	C	
MAY 17,88	MAY 16,88	800	800	****	****	1	3.2	1	91862	2	1	84		
MAY 19,88	MAY 18,88	800	800	1700	2300	1	2.9	1	91864	2	1	114	C	
MAY 20,88	MAY 19,88	800	800	1200	700	1	19.3	1	91866	2	1	99		N
MAY 21,88	MAY 20,88	800	800	815	1100	1	1.0	1	91868	2	1	37		
JUN 2,88	JUN 1,88	800	800	815	1600	1	4.1	1	91869	2	1	89		
JUN 4,88	JUN 3,88	800	800	1400	1430	1	2.0	1	91872	2	1	96	C	
JUN 23,88	JUN 22,88	800	800	1100	1400	1	5.3	1	91874	2	1	U 3	CDJ	
JUN 26,88	JUN 25,88	800	800	1100	1330	1	7.0	1	91877	2	1	83	C	
JUN 27,88	JUN 26,88	800	800	****	****	1	0.6	1	91878	2	1	44		N
JUN 29,88	JUN 28,88	800	800	1100	1630	1	2.4	1	91881	2	1	98		J
JUL 2,88	JUL 1,88	800	800	900	1400	1	6.9	1	91882	2	1	47		N
JUL 18,88	JUL 16,88	800	800	300	1200	1	29.4	1	91884	2	1	105		Z
JUL 19,88	JUL 18,88	800	800	430	600	1	1.0	1	91885	2	1	76	D	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10 PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 9,88	JAN 8,88	350.0	27.5	******	4.25	******	0.0842	2.15	0.56
JAN 13,88	JAN 12,88	93.0	> 100.0	******	LG 3.54	******	UG 0.3630	9.00	3.22
JAN 18,88	JAN 17,88	******	******	******	******	******	******	******	******
JAN 19,88	JAN 18,88	208.0	36.0	******	4.09	******	0.1100	2.60	0.71
JAN 20,88	JAN 19,88	462.0	26.0	******	4.25	******	0.0822	2.25	0.52
JAN 25,88	JAN 24,88	******	******	******	******	******	******	******	******
JAN 29,88	JAN 28,88	29.0	37.0	******	4.30	******	0.0807	0.60	1.42
JAN 31,88	JAN 30,88	153.0	80.0	******	4.00	******	0.1660	9.65	2.72
FEB 2,88	FEB 1,88	315.0	24.0	******	4.38	******	0.0717	2.80	0.42
FEB 8,88	FEB 7,88	24.0	26.0	******	4.45	******	0.0573	1.20	0.90
FEB 10,88	FEB 9,88	73.0	50.0	******	3.98	******	0.1280	1.05	1.54
FEB 13,88	FEB 11,88	704.0	10.5	******	4.74	******	0.0350	0.60	0.25
FEB 16,88	FEB 14,88	539.0	31.5	******	4.18	******	0.0854	2.65	0.50
FEB 20,88	FEB 18,88	1195.0	34.0	******	4.13	******	0.0897	3.05	0.51
MAR 1,88	FEB 29,88	508.0	32.0	******	4.41	******	0.0616	2.85	1.14
MAR 20,88	MAR 11,88	187.0	64.5	******	4.19	******	0.1040	7.45	2.18
APR 4,88	APR 2,88	1538.0	33.0	4.22	4.19	******	0.0873	3.25	0.45
APR 5,88	APR 4,88	44.0	68.0	******	3.94	******	0.1550	6.70	1.39
APR 9,88	APR 7,88	210.0	40.5	4.11	4.12	******	0.1000	4.15	0.58
APR 15,88	APR 14,88	383.0	> 100.0	3.71	3.71	******	0.2510	8.55	2.94
APR 18,88	APR 17,88	45.0	56.0	******	UG 7.46	******	LG 0.0153	6.45	1.90
APR 21,88	APR 20,88	440.0	19.5	******	4.95	******	0.0363	1.75	0.87
APR 23,88	APR 22,88	213.0	46.5	******	4.26	******	0.0938	5.15	1.18
APR 29,88	APR 27,88	855.0	29.5	******	4.45	******	0.0682	2.90	0.78
APR 30,88	APR 29,88	345.0	16.0	******	4.70	******	0.0459	1.85	0.26
MAY 10,88	MAY 9,88	21.0	!IS ******	******	4.03	******	U 0.1600	!IS ******	!IS ******
MAY 14,88	MAY 13,88	529.0	49.5	******	4.29	******	0.0981	6.85	1.45
MAY 17,88	MAY 16,88	174.0	90.0	******	3.77	******	0.2480	9.85	1.26
MAY 19,88	MAY 18,88	212.0	37.0	******	4.23	******	0.0925	4.05	0.77
MAY 20,88	MAY 19,88	1227.0	6.5	******	5.07	******	0.0278	0.75	0.13
MAY 21,88	MAY 20,88	24.0	11.0	******	5.22	******	0.0276	1.60	0.22
JUN 2,88	JUN 1,88	234.0	55.5	4.13	4.18	******	0.1110	9.35	0.72
JUN 4,88	JUN 3,88	124.0	7.0	UG 6.97	UG 6.98	******	0.0156	0.70	0.24
JUN 23,88	JUN 22,88	11.0	77.0	******	U 7.95	******	<W 0.0010	6.10	0.21
JUN 26,88	JUN 25,88	373.0	64.0	3.91	3.97	******	0.1500	8.20	1.13
JUN 27,88	JUN 26,88	17.0	LG 3.0	******	UG 6.02	******	0.0163	LG 0.40	LG 0.06
JUN 29,88	JUN 28,88	152.0	6.5	UG 6.16	UG 6.92	******	0.0169	0.75	0.10
JUL 2,88	JUL 1,88	212.0	10.0	UG 6.75	UG 7.12	******	0.0164	1.10	0.27
JUL 18,88	JUL 16,88	1996.0	28.0	******	4.35	******	0.0886	3.60	0.51
JUL 19,88	JUL 18,88	49.0	47.0	******	!IR ******	******	!IR ******	7.10	1.38

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 9,88	JAN 8,88	0.22	0.08	0.025	<T 0.005	0.070	0.110	0.0562
JAN 13,88	JAN 12,88	0.54	0.90	0.065	0.075	0.355	1.250	LG 0.2884
JAN 18,88	JAN 17,88	******	******	******	******	******	******	******
JAN 19,88	JAN 18,88	0.12	0.15	<T 0.005	<T 0.015	0.035	0.300	0.0813
JAN 20,88	JAN 19,88	0.16	0.11	<T 0.010	<T 0.015	0.040	0.230	0.0562
JAN 25,88	JAN 24,88	******	******	******	******	******	******	******
JAN 29,88	JAN 28,88	!IS ******	1.72	!IS ******	!IS ******	!IS ******	0.110	0.0501
JAN 31,88	JAN 30,88	UG 2.82	UG 2.32	0.305	0.195	UG 1.710	1.690	0.1000
FEB 2,88	FEB 1,88	0.22	0.10	<T 0.020	<T 0.025	0.045	0.370	0.0417
FEB 8,88	FEB 7,88	!IS ******	0.68	!IS ******	!IS ******	!IS ******	!IS ******	0.0355
FEB 10,88	FEB 9,88	0.52	0.75	0.040	<T 0.015	0.175	0.180	0.1047
FEB 13,88	FEB 11,88	<T 0.02	<T 0.01	<T 0.005	<T 0.015	0.030	0.120	0.0182
FEB 16,88	FEB 14,88	<T 0.08	0.14	<T 0.015	<T 0.020	0.075	0.300	0.0661
FEB 20,88	FEB 18,88	<T 0.04	<T 0.02	<T 0.005	<T 0.010	0.025	0.390	0.0741
MAR 1,88	FEB 29,88	0.76	0.31	0.105	0.055	0.190	0.750	0.0389
MAR 20,88	MAR 11,88	UG 2.86	0.99	0.335	0.095	UG 0.605	1.220	0.0646
APR 4,88	APR 2,88	0.16	0.16	0.030	0.025	0.105	0.350	0.0646
APR 5,88	APR 4,88	0.22	0.45	0.045	<T 0.025	0.045	!IS ******	0.1148
APR 9,88	APR 7,88	0.22	0.10	0.030	<T 0.020	0.060	0.500	0.0759
APR 15,88	APR 14,88	1.42	0.99	0.210	D 0.185	0.400	1.370	0.1950
APR 18,88	APR 17,88	UG 3.10	0.53	UG 0.865	0.215	0.175	!IS ******	UG 0.0000
APR 21,88	APR 20,88	0.46	0.11	0.080	0.030	0.025	0.725	0.0112
APR 23,88	APR 22,88	0.86	0.22	0.120	0.085	0.110	1.000	0.0550
APR 29,88	APR 27,88	0.38	0.14	0.070	0.040	0.030	0.700	0.0355
APR 30,88	APR 29,88	<T 0.08	0.07	<T 0.020	<T 0.025	0.030	0.325	0.0200
MAY 10,88	MAY 9,88	UG 4.50	!IS ******	0.500	UG 0.420	UG 0.400	1.525	0.0933
MAY 14,88	MAY 13,88	1.52	0.24	0.200	0.080	0.055	1.200	0.0513
MAY 17,88	MAY 16,88	0.66	0.23	0.090	0.135	0.080	1.025	0.1698
MAY 19,88	MAY 18,88	0.46	0.09	0.085	0.070	0.025	0.625	0.0589
MAY 20,88	MAY 19,88	<W 0.02	<T 0.01	<W 0.005	<T 0.020	<T 0.010	0.225	0.0085
MAY 21,88	MAY 20,88	0.20	0.09	<T 0.020	0.060	0.045	0.450	0.0060
JUN 2,88	JUN 1,88	1.70	0.17	0.250	0.245	0.100	0.926	0.0661
JUN 4,88	JUN 3,88	0.80	0.08	0.105	0.060	0.045	0.224	UG 0.0001
JUN 23,88	JUN 22,88	U 7.48	0.91	U 0.860	<T 0.005	<W 0.005	U 2.460	U 0.0000
JUN 26,88	JUN 25,88	1.18	0.31	0.155	0.200	0.045	0.928	0.1072
JUN 27,88	JUN 26,88	0.14	0.06	0.045	<W 0.005	0.050	0.110	UG 0.0010
JUN 29,88	JUN 28,88	0.76	0.08	0.045	0.170	0.050	0.084	UG 0.0001
JUL 2,88	JUL 1,88	1.00	0.06	0.065	0.050	0.030	0.400	UG 0.0001
JUL 18,88	JUL 16,88	0.28	0.10	0.045	<T 0.020	<T 0.020	0.556	0.0447
JUL 19,88	JUL 18,88	1.34	0.29	0.165	0.235	0.150	1.480	!IR ******

ONTARIO MINISTRY OF THE ENVIRONMENT
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STATION NAME : RAILTON/DAILY/AEROCHEM #10

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JUL 22,88	JUL 21,88	800	800	800	900	1	1.2	1	91886	2	1	97		
JUL 25,88	JUL 24,88	800	800	****	****	1	****	1	91887	2	1	****	G	X
JUL 27,88	JUL 26,88	800	800	1500	1530	1	2.5	1	91889	2	1	87		C
AUG 4,88	AUG 3,88	800	800	****	****	1	1.4	1	91891	2	1	125		N
AUG 6,88	AUG 5,88	800	800	****	****	1	2.4	1	91893	2	1	81	D	
AUG 10,88	AUG 9,88	800	800	400	430	1	0.6	1	91896	2	1	91		
AUG 21,88	AUG 20,88	800	800	1800	2100	1	8.0	1	91898	2	1	72	A	HN
AUG 26,88	AUG 25,88	800	800	****	****	1	24.7	1	91900	2	1	92		
AUG 31,88	AUG 30,88	800	800	****	****	1	16.1	1	91903	2	1	101		HN
SEP 6,88	SEP 5,88	800	800	****	****	1	7.2	1	91906	2	1	85		
SEP 13,88	SEP 12,88	800	800	2400	400	1	6.0	1	91908	2	1	92		
SEP 15,88	SEP 14,88	800	800	1830	2100	1	1.3	1	91912	2	1	85		H
SEP 18,88	SEP 17,88	800	800	2200	2400	1	6.3	1	91913	2	1	97		
SEP 21,88	SEP 20,88	800	800	****	****	1	8.0	1	91916	2	1	102		
SEP 23,88	SEP 22,88	800	800	200	800	1	13.5	1	91917	2	1	97		
SEP 28,88	SEP 27,88	800	800	1800	2200	1	4.0	1	91919	2	1	108		
OCT 3,88	OCT 2,88	800	800	800	1800	1	28.2	1	91922	2	1	103		N
OCT 5,88	OCT 4,88	800	800	130	800	1	13.8	1	91923	2	1	92		
OCT 11,88	OCT 10,88	800	800	1500	1700	1	9.6	1	91926	2	1	84		
OCT 19,88	OCT 17,88	800	800	200	800	1	18.0	1	91928	2	1	87		NY2
OCT 24,88	OCT 21,88	800	800	****	****	1	38.2	1	91929	2	1	65		NHNY3
OCT 25,88	OCT 24,88	800	800	800	800	1	13.5	1	91932	2	1	85		
OCT 26,88	OCT 25,88	800	800	800	800	1	0.8	1	91934	2	1	60		H
OCT 29,88	OCT 27,88	800	800	600	1200	1	12.2	1	91936	2	1	84	Q	HCNY2
NOV 3,88	NOV 1,88	800	800	500	1200	1	11.4	1	91938	2	1	96		CNY2
NOV 12,88	NOV 3,88	800	800	****	****	1	31.8	1	91939	2	1	92	Q	NZ
NOV 13,88	NOV 12,88	800	800	800	1200	1	****	*	91941	2	1	****	P	
NOV 14,88	NOV 13,88	800	800	900	1700	1	3.4	1	91943	2	1	102		
NOV 15,88	NOV 14,88	800	800	****	****	1	24.0	1	91945	2	1	82		N
NOV 28,88	NOV 27,88	800	800	****	****	1	5.6	1	91947	2	1	98		C
DEC 1,88	NOV 30,88	800	800	****	****	3	14.8	2	91950	2	1	46	C	XN
DEC 12,88	DEC 12,88	800	800	1100	1500	2	2.0	2	91952	2	1	63		XZ
DEC 18,88	DEC 16,88	800	800	100	1400	2	17.8	2	91954	2	1	50		XNZ
DEC 22,88	DEC 21,88	800	800	****	****	2	3.4	2	91956	2	1	98	C	X
DEC 28,88	DEC 22,88	800	800	****	****	3	30.5	2	91958	2	1	72		XNZ
DEC 29,88	DEC 28,88	800	800	800	1400	3	2.8	2	91960	2	1	47		XN

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STATION NAME : RAILTON/DAILY/AEROCHEM #10

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JUL 22,88	JUL 21,88	75.0	47.0	******	D 4.15	******	D 0.1280	5.70	1.02
JUL 25,88	JUL 24,88	510.0	******	******	******	******	******	******	******
JUL 27,88	JUL 26,88	140.0	U 4.0	******	3.63	******	0.3470	14.25	1.67
AUG 4,88	AUG 3,88	113.0	> 100.0	******	3.65	******	0.3210	11.20	1.77
AUG 6,88	AUG 5,88	125.0	44.5	******	4.17	******	0.1130	5.80	0.81
AUG 10,88	AUG 9,88	35.0	!IS ******	******	!IR ******	******	!IR ******	9.45	2.04
AUG 21,88	AUG 20,88	370.0	16.0	4.93	4.87	******	0.0379	2.60	0.22
AUG 26,88	AUG 25,88	1465.0	37.5	4.07	4.12	******	0.1120	3.85	0.63
AUG 31,88	AUG 30,88	1050.0	27.0	4.23	4.32	******	0.0837	2.95	0.34
SEP 6,88	SEP 5,88	394.0	72.0	3.81	3.91	******	0.1870	9.55	1.19
SEP 13,88	SEP 12,88	354.0	37.5	4.13	4.09	******	0.1100	4.45	0.50
SEP 15,88	SEP 14,88	71.0	22.5	******	4.38	******	0.0716	4.00 <W	0.01
SEP 18,88	SEP 17,88	395.0	49.5	3.95	3.99	******	0.1370	5.50	0.94
SEP 21,88	SEP 20,88	527.0	22.5	4.25	4.31	******	0.0739	2.60	0.28
SEP 23,88	SEP 22,88	847.0	20.0	4.29	4.34	******	0.0728	2.00	0.32
SEP 26,88	SEP 27,88	277.0	48.5	4.10	4.19	******	0.1010	6.90	1.46
OCT 3,88	OCT 2,88	1870.0	23.0	4.26	4.32	******	0.0753	2.70	0.28
OCT 5,88	OCT 4,88	815.0	17.5	4.34	4.42	******	0.0626	1.25	0.42
OCT 11,88	OCT 10,88	521.0	26.5	4.38	4.48	******	0.0641	4.25	0.71
OCT 19,88	OCT 17,88	1006.0	27.5	4.25	4.16	******	0.0958	2.70	0.44
OCT 24,88	OCT 21,88	1608.0	15.5	4.47	4.48	******	0.0531	1.05 <T	0.03
OCT 25,88	OCT 24,88	741.0	23.0	4.41	4.42	******	0.0603	2.40	0.44
OCT 26,88	OCT 25,88	31.0	11.0	******	4.78	******	0.0404	1.50	0.38
OCT 29,88	OCT 27,88	658.0	26.0	******	4.49	******	0.0540	2.45	0.47
NOV 3,88	NOV 1,88	705.0	15.5	******	4.28	******	0.0755	1.10	0.37
NOV 12,88	NOV 3,88	1893.0	24.5	******	4.22	******	0.0854	2.00	0.50
NOV 13,88	NOV 12,88	274.0	46.0	******	4.03	******	0.1170	3.55	1.11
NOV 14,88	NOV 13,88	223.0	24.0	******	4.29	******	0.0832	2.55	0.39
NOV 15,88	NOV 14,88	1265.0	18.5	4.44	4.43	******	0.0620	2.25	0.45
NOV 28,88	NOV 27,88	352.0	19.0	4.14	4.12	******	0.1020	3.48	0.76
DEC 1,88	NOV 30,88	438.0	******	******	******	******	******	******	******
DEC 12,88	DEC 12,88	81.0	******	******	******	******	******	******	******
DEC 18,88	DEC 16,88	576.0	******	******	******	******	******	******	******
DEC 22,88	DEC 21,88	215.0	******	******	******	******	******	******	******
DEC 28,88	DEC 22,88	1423.0	******	******	******	******	******	******	******
DEC 29,88	DEC 28,88	86.0	******	******	******	******	******	******	******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10 PAGE : 6

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JUL 22,88	JUL 21,88	0.64	0.34	0.075	0.080	0.050	1.020	D 0.0708
JUL 25,88	JUL 24,88	******	******	******	******	******	******	******
JUL 27,88	JUL 26,88	0.88	0.53	0.080	0.045	0.025	1.320	0.2344
AUG 4,88	AUG 3,88	0.50	0.42	0.080	0.065	0.030	1.110	0.2239
AUG 6,88	AUG 5,88	1.16	0.14	0.100	0.050	0.030	0.370	0.0676
AUG 10,88	AUG 9,88	!IS ******	0.47	!IS ******	!IS ******	!IS ******	1.520	!IR ******
AUG 21,88	AUG 20,88	0.72	<W 0.01	0.065	0.030	0.030	0.480	0.0135
AUG 26,88	AUG 25,88	0.34	0.06	0.050	0.035	0.040	0.460	0.0759
AUG 31,88	AUG 30,88	0.36	0.11	0.035	0.080	0.040	0.496	0.0479
SEP 6,88	SEP 5,88	1.16	0.54	0.165	UG 0.355	UG 0.365	0.850	0.1230
SEP 13,88	SEP 12,88	0.40	0.12	0.040	<T 0.010	0.045	0.320	0.0813
SEP 15,88	SEP 14,88	0.54	0.15	0.060	0.125	0.085	0.290	0.0417
SEP 18,88	SEP 17,88	0.38	0.16	0.045	0.035	0.030	0.816	0.1023
SEP 21,88	SEP 20,88	0.20	0.12	0.025	<T 0.025	0.090	0.176	0.0490
SEP 23,88	SEP 22,88	<T 0.04	<T 0.02	<T 0.005	<T 0.005	<T 0.015	0.210	0.0457
SEP 28,88	SEP 27,88	1.98	0.30	0.305	0.080	0.060	0.966	0.0646
OCT 3,88	OCT 2,88	<T 0.04	0.10	<T 0.015	<W 0.005	0.035	0.306	0.0479
OCT 5,88	OCT 4,88	<W 0.02	<T 0.02	<T 0.005	<W 0.005	<W 0.005	0.220	0.0380
OCT 11,88	OCT 10,88	0.36	0.11	0.080	<T 0.010	<W 0.005	1.060	0.0331
OCT 19,88	OCT 17,88	0.22	0.11	0.030	<T 0.025	0.050	0.280	0.0692
OCT 24,88	OCT 21,88	<T 0.10	0.05	<T 0.010	<T 0.005	<W 0.005	0.146	0.0331
OCT 25,88	OCT 24,88	0.20	0.09	<T 0.025	0.030	0.135	0.410	0.0380
OCT 26,88	OCT 25,88	0.52	0.14	0.065	0.045	0.040	0.320	0.0166
OCT 29,88	OCT 27,88	0.18	0.13	0.030	0.030	0.030	0.196	0.0324
NOV 3,88	NOV 1,88	<T 0.04	0.07	<T 0.005	<T 0.005	<T 0.010	0.126	0.0525
NOV 12,88	NOV 3,88	<T 0.10	0.17	<T 0.015	<T 0.010	0.050	0.200	0.0603
NOV 13,88	NOV 12,88	0.26	0.88	0.090	0.050	0.570	0.456	0.0933
NOV 14,88	NOV 13,88	0.12	0.13	<T 0.020	<T 0.025	0.035	0.270	0.0513
NOV 15,88	NOV 14,88	0.28	0.07	0.035	<T 0.010	0.025	0.206	0.0372
NOV 28,88	NOV 27,88	0.30	0.27	0.040	0.035	0.140	0.350	0.0759
DEC 1,88	NOV 30,88	******	******	******	******	******	******	******
DEC 12,88	DEC 12,88	******	******	******	******	******	******	******
DEC 18,88	DEC 16,88	******	******	******	******	******	******	******
DEC 22,88	DEC 21,88	******	******	******	******	******	******	******
DEC 28,88	DEC 22,88	******	******	******	******	******	******	******
DEC 29,88	DEC 28,88	******	******	******	******	******	******	******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM #9A

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 1,88	DEC 31,87	700	900	1430	1700	3	0.6	2	60253	2	1	109		
JAN 3,88	JAN 2,88	800	800	****	****	2	0.2	2	60254	2	1	****	EK	
JAN 4,88	JAN 3,88	800	700	600	700	2	0.2	2	60255	2	1	****	EK	
JAN 5,88	JAN 4,88	700	700	700	1400	2	3.2	2	60256	2	1	35		N
JAN 9,88	JAN 8,88	700	700	900	1630	2	3.2	2	60257	2	1	88		
JAN 12,88	JAN 11,88	700	700	****	****	2	0.4	2	60258	2	1	****	EK	
JAN 13,88	JAN 12,88	700	700	****	****	1	1.8	2	60259	2	1	92		
JAN 14,88	JAN 13,88	700	700	****	****	1	0.2	2	60260	2	1	****	EK	
JAN 15,88	JAN 14,88	700	700	****	****	2	0.8	2	60261	2	1	48		N
JAN 16,88	JAN 15,88	700	700	****	****	2	0.4	2	60262	2	1	****	EK	
JAN 18,88	JAN 17,88	800	700	1200	1600	1	0.8	2	60263	2	1	126		N
JAN 19,88	JAN 18,88	700	700	****	****	1	2.4	2	60264	2	1	101		
JAN 20,88	JAN 19,88	700	700	****	****	1	4.0	2	60265	2	1	109		M
JAN 21,88	JAN 20,88	700	700	****	****	1	5.0	2	60266	2	1	118		
JAN 22,88	JAN 21,88	700	700	****	****	1	0.4	2	60267	2	1	****	EK	
JAN 23,88	JAN 22,88	700	700	****	****	2	0.2	2	60268	2	1	****	EK	
JAN 25,88	JAN 24,88	700	700	1030	1700	2	10.4	2	60269	2	1	61		
FEB 2,88	FEB 1,88	700	700	****	****	3	10.0	2	60273	2	1	54		
FEB 4,88	FEB 3,88	700	700	2130	700	2	7.6	2	60274	2	1	4	C	N
FEB 5,88	FEB 4,88	700	700	700	1100	2	0.4	2	60275	2	1	****	EK	
FEB 6,88	FEB 5,88	700	700	****	****	2	0.2	2	60276	2	1	****	EK	
FEB 7,88	FEB 6,88	700	700	****	****	2	0.4	2	60277	2	1	****	EK	
FEB 8,88	FEB 7,88	700	700	1000	2400	2	6.4	2	60278	2	1	7		N
FEB 10,88	FEB 9,88	700	700	****	****	2	3.4	2	60279	2	1	71		
FEB 12,88	FEB 11,88	700	800	200	800	2	16.8	2	60280	2	1	56		M
FEB 13,88	FEB 12,88	800	700	800	1600	2	10.4	2	60281	2	1	55		M
FEB 15,88	FEB 14,88	700	700	300	700	3	8.0	2	60282	2	1	79	C	
FEB 16,88	FEB 15,88	700	700	1030	1200	3	4.2	2	60283	2	1	103		
FEB 17,88	FEB 16,88	700	700	****	****	2	0.4	2	60284	2	1	97		
FEB 20,88	FEB 19,88	700	800	1700	200	3	24.6	2	60285	2	1	67		
FEB 21,88	FEB 20,88	800	800	****	****	2	0.2	2	60287	2	1	****	EK	
FEB 23,88	FEB 22,88	700	700	1800	2100	1	8.4	2	60288	2	1	108	C	
FEB 27,88	FEB 26,88	700	700	****	****	2	0.2	2	60289	2	1	****	EK	
FEB 29,88	FEB 28,88	700	700	****	****	2	0.4	2	60290	2	1	****	EK	
MAR 9,88	MAR 8,88	700	700	****	****	1	0.2	2	60291	2	1	****	EK	
MAR 10,88	MAR 9,88	700	700	****	****	1	4.6	2	60292	2	1	126		N
MAR 13,88	MAR 12,88	700	700	****	****	4	2.4	2	60293	2	1	125		N
MAR 14,88	MAR 13,88	700	700	****	****	2	0.2	2	60294	2	1	****	EK	
MAR 15,88	MAR 14,88	700	700	****	****	2	0.4	2	60295	2	1	****	EK	
MAR 19,88	MAR 18,88	700	700	1400	2030	2	1.0	2	60296	2	1	****	EK	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM 89A PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 1,88	DEC 31,87	42.0	75.0	******	3.88	******	0.1900	9.05	2.04
JAN 3,88	JAN 2,88	******	******	******	******	******	******	******	******
JAN 4,88	JAN 3,88	******	******	******	******	******	******	******	******
JAN 5,88	JAN 4,88	72.0	36.5	******	4.13	******	0.1110	2.75	1.14
JAN 9,88	JAN 8,88	182.0	17.0	****** D	4.56	******	0.0523	0.95	0.77
JAN 12,88	JAN 11,88	******	******	******	******	******	******	******	******
JAN 13,88	JAN 12,88	107.0	> 100.0	****** LG	3.59	****** UG	0.3350	8.85	3.22
JAN 14,88	JAN 13,88	******	******	******	******	******	******	******	******
JAN 15,88	JAN 14,88	25.0	!IS ******	******	4.88	******	0.0399	0.95	0.89
JAN 16,88	JAN 15,88	******	******	******	******	******	******	******	******
JAN 18,88	JAN 17,88	65.0	81.5	******	3.71	******	0.2500	5.10	2.06
JAN 19,88	JAN 18,88	156.0	D 31.5	****** D	4.11	******	0.1100	D 2.35	0.74
JAN 20,88	JAN 19,88	280.0	7.5	****** D	4.80	****** D	0.0368	1.00	0.18
JAN 21,88	JAN 20,88	379.0	39.0	******	4.03	******	0.1260	2.85	1.12
JAN 22,88	JAN 21,88	******	******	******	******	******	******	******	******
JAN 23,88	JAN 22,88	******	******	******	******	******	******	******	******
JAN 25,88	JAN 24,88	409.0	30.0	******	4.21	******	0.0949	2.50	0.80
FEB 2,88	FEB 1,88	352.0	28.0	******	4.33	******	0.0741	2.70	0.41
FEB 4,88	FEB 3,88	23.0	10.0	******	4.86	******	0.0315	LG 0.25	0.33
FEB 5,88	FEB 4,88	******	******	******	******	******	******	******	******
FEB 6,88	FEB 5,88	******	******	******	******	******	******	******	******
FEB 7,88	FEB 6,88	******	******	******	******	******	******	******	******
FEB 8,88	FEB 7,88	32.0	!IS ******	******	4.14	******	0.1050	!IS ******	!IS ******
FEB 10,88	FEB 9,88	155.0	49.5	******	4.02	******	0.1260	0.65	1.40
FEB 12,88	FEB 11,88	610.0	7.0	******	4.97	******	0.0254	LG 0.30	0.17
FEB 13,88	FEB 12,88	368.0	16.0	******	4.54	******	0.0480	0.80	0.33
FEB 15,88	FEB 14,88	407.0	21.5	******	4.44	******	0.0589	1.60	0.34
FEB 16,88	FEB 15,88	278.0	34.0	******	4.21	******	0.0912	3.05	0.59
FEB 17,88	FEB 16,88	25.0	17.5	******	4.70	******	0.0425	0.75	0.66
FEB 20,88	FEB 19,88	1063.0	29.0	******	4.26	******	0.0810	2.30	0.47
FEB 21,88	FEB 20,88	******	******	******	******	******	******	******	******
FEB 23,88	FEB 22,88	582.0	32.0	******	4.47	******	0.0638	2.75	1.09
FEB 27,88	FEB 26,88	******	******	******	******	******	******	******	******
FEB 29,88	FEB 28,88	******	******	******	******	******	******	******	******
MAR 9,88	MAR 8,88	******	******	******	******	******	******	******	******
MAR 10,88	MAR 9,88	372.0	53.0	******	4.04	******	0.1270	4.60	0.93
MAR 13,88	MAR 12,88	193.0	52.5	******	4.05	******	0.1250	4.40	1.09
MAR 14,88	MAR 13,88	******	******	******	******	******	******	******	******
MAR 15,88	MAR 14,88	******	******	******	******	******	******	******	******
MAR 19,88	MAR 18,88	******	******	******	******	******	******	******	******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM #9A

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 1,88	DEC 31,87	!IS ******	1.69	!IS ******	!IS ******	!IS ******	1.460	0.1318
JAN 3,88	JAN 2,88	******	******	******	******	******	******	******
JAN 4,88	JAN 3,88	******	******	******	******	******	******	******
JAN 5,88	JAN 4,88	0.46	0.51	0.060	0.025	0.110	0.480	0.0741
JAN 9,88	JAN 8,88	0.50	0.57	0.050	<T 0.020	D 0.350	0.120	D 0.0275
JAN 12,88	JAN 11,88	******	******	******	******	******	******	******
JAN 13,88	JAN 12,88	0.92	0.88	0.110	0.130	0.340	1.250	LG 0.2570
JAN 14,88	JAN 13,88	******	******	******	******	******	******	******
JAN 15,88	JAN 14,88	!IS ******	1.04	!IS ******	!IS ******	!IS ******	0.240	0.0132
JAN 16,88	JAN 15,88	******	******	******	******	******	******	******
JAN 18,88	JAN 17,88	0.48	1.27	0.065	0.055	0.550	0.320	0.1950
JAN 19,88	JAN 18,88	<T 0.02	0.18	<W 0.005	D 0.035	0.050	0.260	D 0.0776
JAN 20,88	JAN 19,88	<T 0.06	0.11	<T 0.005	0.030	0.055	0.080	D 0.0158
JAN 21,88	JAN 20,88	0.26	0.20	0.025	<T 0.015	0.040	0.340	0.0933
JAN 22,88	JAN 21,88	******	******	******	******	******	******	******
JAN 23,88	JAN 22,88	******	******	******	******	******	******	******
JAN 25,88	JAN 24,88	0.24	0.31	0.035	<T 0.015	0.075	0.450	0.0617
FEB 2,88	FEB 1,88	0.16	0.04	0.050	0.010	0.030	0.300	0.0468
FEB 4,88	FEB 3,88	0.10	0.23	<T 0.005	0.030	0.145	!IS ******	0.0138
FEB 5,88	FEB 4,88	******	******	******	******	******	******	******
FEB 6,88	FEB 5,88	******	******	******	******	******	******	******
FEB 7,88	FEB 6,88	******	******	******	******	******	******	******
FEB 8,88	FEB 7,88	0.72	!IS ******	0.075	0.065	0.360	!IS ******	0.0724
FEB 10,88	FEB 9,88	0.14	0.66	<T 0.010	<T 0.010	0.095	0.100	0.0955
FEB 12,88	FEB 11,88	<W 0.02	<T 0.03	<W 0.005	<W 0.005	<T 0.025	0.030	0.0107
FEB 13,88	FEB 12,88	<W 0.02	<T 0.03	<W 0.005	<W 0.005	<T 0.010	0.030	0.0288
FEB 15,88	FEB 14,88	<T 0.10	0.08	<T 0.005	<T 0.020	0.040	0.120	0.0363
FEB 16,88	FEB 15,88	<T 0.10	0.15	<T 0.020	0.030	0.070	0.430	0.0617
FEB 17,88	FEB 16,88	0.80	0.38	0.100	<T 0.015	0.190	!IS ******	0.0200
FEB 20,88	FEB 19,88	<T 0.02	<W 0.01	<W 0.005	<T 0.010	<T 0.020	0.260	0.0550
FEB 21,88	FEB 20,88	******	******	******	******	******	******	******
FEB 23,88	FEB 22,88	0.72	0.29	0.095	0.060	0.170	0.700	0.0339
FEB 27,88	FEB 26,88	******	******	******	******	******	******	******
FEB 29,88	FEB 28,88	******	******	******	******	******	******	******
MAR 9,88	MAR 8,88	******	******	******	******	******	******	******
MAR 10,88	MAR 9,88	0.42	0.31	0.050	0.085	0.150	0.540	0.0912
MAR 13,88	MAR 12,88	0.66	0.18	0.065	0.045	0.190	0.460	0.0891
MAR 14,88	MAR 13,88	******	******	******	******	******	******	******
MAR 15,88	MAR 14,88	******	******	******	******	******	******	******
MAR 19,88	MAR 18,88	******	******	******	******	******	******	******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM 89A PAGE : 4

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
MAR 20,88	MAR 19,88	700	800	2100	2300	2	4.0	2	60297	2	1	90		
MAR 24,88	MAR 23,88	700	700	1900	2300	1	3.8	2	60298	2	1	146	C	NH
MAR 25,88	MAR 24,88	700	700	****	****	1	0.4	2	60299	2	1	****	EK	
MAR 26,88	MAR 25,88	700	700	****	****	1	16.2	2	60300	2	1	49		N
MAR 27,88	MAR 26,88	700	800	****	****	1	2.2	2	60302	2	1	144		N
APR 3,88	APR 2,88	800	800	****	****	1	3.0	2	60303	2	1	119		
APR 4,88	APR 3,88	800	700	1430	2200	1	19.8	2	60304	2	1	94		
APR 5,88	APR 4,88	700	700	1415	1630	1	0.8	2	60305	2	1	103		
APR 8,88	APR 7,88	700	700	****	****	1	1.8	2	60306	2	1	136		N
APR 9,88	APR 8,88	700	800	****	****	1	1.0	2	60307	2	1	123		NCM
APR 13,88	APR 12,88	700	700	****	****	1	0.4	1	60308	2	1	****	EK	
APR 14,88	APR 13,88	700	700	****	****	1	2.8	1	60309	2	1	104		
APR 15,88	APR 14,88	700	700	1100	1430	1	4.0	1	60310	2	1	98	D	
APR 16,88	APR 15,88	700	700	****	****	2	0.4	1	60311	2	1	****	EK	
APR 17,88	APR 16,88	700	800	****	****	1	0.2	1	60312	2	1	****	EK	
APR 18,88	APR 17,88	800	700	****	****	1	0.8	1	60313	2	1	99		
APR 21,88	APR 20,88	700	700	2030	2430	2	6.8	1	60314	2	1	95		
APR 24,88	APR 23,88	800	800	2300	2320	1	2.0	1	60315	2	1	134	D	N
APR 27,88	APR 26,88	700	700	1145	1300	1	4.2	1	60316	2	1	98		
APR 28,88	APR 27,88	700	700	2100	2300	1	7.2	1	60317	2	1	90	D	
APR 29,88	APR 28,88	700	700	2200	2340	1	4.4	1	60318	2	1	81		
APR 30,88	APR 29,88	700	800	900	2030	1	6.4	1	60319	2	1	78		
MAY 1,88	APR 30,88	800	800	830	1100	1	0.6	1	60320	2	1	64		
MAY 10,88	MAY 9,88	700	700	1645	2000	1	0.6	1	60321	2	1	80		
MAY 13,88	MAY 12,88	700	700	600	700	1	0.2	1	60322	2	1	****	EK	
MAY 14,88	MAY 13,88	700	700	700	1500	1	8.0	1	60323	2	1	99		
MAY 16,88	MAY 15,88	800	700	****	****	1	2.4	1	60324	2	1	83	D	
MAY 17,88	MAY 16,88	700	700	****	****	1	2.4	1	60325	2	1	91		
MAY 19,88	MAY 18,88	800	800	1630	1900	1	2.2	1	60327	2	1	86		
MAY 20,88	MAY 19,88	800	800	1245	1700	1	32.4	1	60328	2	1	77		NCM
MAY 21,88	MAY 20,88	800	800	800	1400	1	2.8	1	60330	2	1	72		NCM
MAY 23,88	MAY 22,88	800	800	****	****	1	0.2	1	60331	2	1	****	EK	
MAY 26,88	MAY 25,88	800	800	****	****	1	0.2	1	60332	2	1	****	EK	
MAY 27,88	MAY 26,88	800	800	****	****	1	0.2	1	60333	2	1	****	EK	
MAY 31,88	MAY 30,88	800	700	****	****	1	0.2	1	60334	2	1	****	EK	
JUN 1,88	MAY 31,88	700	700	****	****	1	3.6	1	60335	2	1	104	C	
JUN 2,88	JUN 1,88	700	700	700	1130	1	3.8	1	60336	2	1	90		
JUN 3,88	JUN 2,88	700	700	2230	2300	1	0.6	1	60337	2	1	38		N
JUN 4,88	JUN 3,88	700	700	1200	1230	1	2.2	1	60338	2	1	89		
JUN 23,88	JUN 22,88	700	700	2000	2300	1	6.0	1	60340	2	1	97	A	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM #9A

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
MAR 20,88	MAR 19,88	233.0		19.0		******		4.43		******		0.0590		<T 0.20		0.60
MAR 24,88	MAR 23,88	356.0		48.5		******	UG	5.40		******		0.0363		7.65		1.93
MAR 25,88	MAR 24,88	******		******		******		******		******		******		******		******
MAR 26,88	MAR 25,88	517.0		16.5		******		4.77		******		0.0412		1.95		0.45
MAR 27,88	MAR 26,88	204.0		42.0		******		4.11		******		0.1070		2.35		1.17
APR 3,88	APR 2,88	230.0		73.0		******		3.80		******		0.1930		6.00		1.16
APR 4,88	APR 3,88	1197.0		25.5		******		4.33		******		0.0699		2.20		0.28
APR 5,88	APR 4,88	53.0		81.5		******		3.90		******		0.1800		7.60		1.49
APR 8,88	APR 7,88	158.0		55.0		******		4.00		******		0.1380		5.05		0.75
APR 9,88	APR 8,88	79.0	LG	5.0		******		5.15		******		0.0270		0.40	LG	0.06
APR 13,88	APR 12,88	******		******		******		******		******		******		******		******
APR 14,88	APR 13,88	188.0		83.5		******		3.83		******		0.1960		6.10		1.85
APR 15,88	APR 14,88	252.0	>	100.0		******		3.67		******	UG	0.2860		9.95	UG	3.45
APR 16,88	APR 15,88	******		******		******		******		******		******		******		******
APR 17,88	APR 16,88	******		******		******		******		******		******		******		******
APR 18,88	APR 17,88	51.0		60.5		******	UG	7.64		******	LG	0.0154		7.75		1.77
APR 21,88	APR 20,88	417.0	D	12.0		******		5.18		******		0.0304		1.25		0.67
APR 24,88	APR 23,88	172.0		50.5		******		4.17		******		0.1090		5.45		1.22
APR 27,88	APR 26,88	265.0		29.0		******		4.54		******		0.0576		3.30		0.77
APR 28,88	APR 27,88	419.0		21.0		******		4.59		******		0.0534		2.10		0.46
APR 29,88	APR 28,88	231.0		30.0		******		4.31		******		0.0785		1.70		0.79
APR 30,88	APR 29,88	324.0		15.5		******		4.70		******		0.0424		1.80		0.26
MAY 1,88	APR 30,88	25.0		11.5		******		4.76		******		0.0399		1.45		0.16
MAY 10,88	MAY 9,88	31.0	!IS	******		******		3.65		******		0.3250	!IS	******	!IS	******
MAY 13,88	MAY 12,88	******		******		******		******		******		******		******		******
MAY 14,88	MAY 13,88	512.0		48.0		[illegible]		4.31		******		0.0896		6.35		1.34
MAY 16,88	MAY 15,88	128.0		94.0		******		3.78		******		0.2260		10.10		1.34
MAY 17,88	MAY 16,88	140.0		46.5		******		4.10		******		0.1160		4.85		0.64
MAY 19,88	MAY 18,88	122.0		54.0		******		4.01		******		0.1370		4.85		0.88
MAY 20,88	MAY 19,88	1618.0		5.5		******		5.12		******		0.0256	LG	0.45		0.08
MAY 21,88	MAY 20,88	130.0	LG	3.5		******	UG	6.26		******		0.0153	LG	0.35		0.10
MAY 23,88	MAY 22,88	******		******		******		******		******		******		******		******
MAY 26,88	MAY 25,88	******		******		******		******		******		******		******		******
MAY 27,88	MAY 26,88	******	!RE	******		******	!RE	******		******	!RE	******	!RE	******	!RE	******
MAY 31,88	MAY 30,88	******	!RE	******		******	!RE	******		******	!RE	******	!RE	******	!RE	******
JUN 1,88	MAY 31,88	242.0		35.[illegible]		4.18		4.31		******		0.0848		6.45		0.63
JUN 2,88	JUN 1,88	221.0		32.0		4.13		4.20		******		0.0950		4.75		0.29
JUN 3,88	JUN 2,88	15.0		6.0		******	!IS	******		******	!IS	******	LG	0.50		0.14
JUN 4,88	JUN 3,88	126.0		9.0	D	4.64		4.78		******		0.0356		1.10		0.35
JUN 23,88	JUN 22,88	375.0		22.0		4.45		4.64		******		0.0511		3.55		0.63

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM #9A PAGE : 6

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
MAR 20,88	MAR 19,88	<T 0.08	0.17	<T 0.010	<W 0.005	0.040	0.060	0.0372
MAR 24,88	MAR 23,88	2.30	0.70	UG 0.480	0.125	0.430	1.810	UG 0.0040
MAR 25,88	MAR 24,88	******	******	******	******	******	******	******
MAR 26,88	MAR 25,88	0.44	0.16	0.070	<T 0.020	0.130	0.340	0.0170
MAR 27,88	MAR 26,88	0.34	0.10	0.040	0.025	0.03	0.490	0.0776
APR 3,88	APR 2,88	0.18	0.42	0.045	0.030	0.215	0.530	0.1585
APR 4,88	APR 3,88	<T 0.04	0.09	<T 0.010	<T 0.010	0.045	0.200	0.0468
APR 5,88	APR 4,88	0.14	0.19	0.030	<T 0.020	0.035	1.675	0.1259
APR 8,88	APR 7,88	0.28	0.17	0.040	0.030	0.065	0.450	0.1000
APR 9,88	APR 8,88	<T 0.02	<W 0.01	<T 0.005	<T 0.015	<T 0.010	<W 0.005	0.0071
APR 13,88	APR 12,88	******	******	******	******	******	******	******
APR 14,88	APR 13,88	0.82	0.31	0.105	0.035	0.105	0.675	0.1479
APR 15,88	APR 14,88	1.72	0.93	0.260	0.075	0.290	1.500	0.2138
APR 16,88	APR 15,88	******	******	******	******	******	******	******
APR 17,88	APR 16,88	******	******	******	******	******	******	******
APR 18,88	APR 17,88	UG 4.42	0.53	UG 1.070	UG 0.300	D 0.270	1.750	UG 0.0000
APR 21,88	APR 20,88	0.48	0.06	0.080	<T 0.020	<T 0.025	0.475	0.0066
APR 24,88	APR 23,88	0.68	0.17	0.110	0.060	0.090	1.075	0.0676
APR 27,88	APR 26,88	0.48	0.15	0.095	0.035	0.025	0.800	0.0288
APR 28,88	APR 27,88	0.24	0.08	0.035	<T 0.015	<T 0.020	0.350	0.0257
APR 29,88	APR 28,88	0.12	0.10	<T 0.020	<T 0.025	0.040	0.325	0.0490
APR 30,88	APR 29,88	<T 0.08	0.06	<T 0.015	<T 0.015	0.035	0.325	0.0200
MAY 1,88	APR 30,88	0.12	0.07	0.030	0.030	0.045	0.100	0.0174
MAY 10,88	MAY 9,88	UG 3.20	!IS ******	0.410	UG 0.340	UG 0.380	1.700	0.2239
MAY 13,88	MAY 12,88	******	******	******	******	******	******	******
MAY 14,88	MAY 13,88	1.48	0.25	0.200	0.100	0.065	1.150	0.0490
MAY 16,88	MAY 15,88	0.90	0.30	0.105	0.155	0.085	1.100	0.1660
MAY 17,88	MAY 16,88	0.30	0.12	0.035	0.045	0.045	0.475	0.0794
MAY 19,88	MAY 18,88	0.40	0.14	0.075	<T 0.020	0.030	0.350	0.0977
MAY 20,88	MAY 19,88	<W 0.02	<T 0.03	<W 0.005	<T 0.005	<T 0.010	LG 0.050	0.0076
MAY 21,88	MAY 20,88	0.12	<T 0.04	<T 0.010	0.025	0.025	LG 0.050	UG 0.0005
MAY 23,88	MAY 22,88	******	******	******	******	******	******	******
MAY 26,88	MAY 25,88	******	******	******	******	******	******	******
MAY 27,88	MAY 26,88	!IS ******	!RE ******	!IS ******	!IS ******	!IS ******	!RE ******	!RE ******
MAY 31,88	MAY 30,88	!IS ******	!RE ******	!IS ******	!IS ******	!IS ******	!RE ******	!RE ******
JUN 1,88	MAY 31,88	1.16	0.14	0.220	0.185	0.080	0.708	0.0490
JUN 2,88	JUN 1,88	0.18	0.10	0.050	0.040	0.060	0.652	0.0631
JUN 3,88	JUN 2,88	0.92	0.06	0.115	0.025	0.045	0.262	!IS ******
JUN 4,88	JUN 3,88	0.24	<T 0.04	0.040	<T 0.015	<T 0.020	0.218	0.0166
JUN 23,88	JUN 22,88	0.64	0.13	0.110	0.040	0.040	0.828	0.0229

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM #9A

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JUN 25,88	JUN 24,88	700	800	****	****	1	2.0	1	60341	2	1	92		J
JUN 26,88	JUN 25,88	800	800	1000	1045	1	6.4	1	60342	2	1	99		
JUN 27,88	JUN 26,88	800	700	2100	2330	1	0.6	1	60343	2	1	80		
JUN 29,88	JUN 28,88	700	700	1100	1430	1	4.4	1	60344	2	1	98		J
JUN 30,88	JUN 29,88	700	700	1400	1530	1	3.0	1	60345	2	1	98		JM
JUL 1,88	JUN 30,88	700	800	****	****	1	3.4	1	60346	2	1	89		J
JUL 2,88	JUL 1,88	800	800	1430	1500	1	1.0	1	60347	2	1	49		N
JUL 12,88	JUL 11,88	700	700	1315	1330	1	1.0	1	60348	2	1	104		
JUL 15,88	JUL 14,88	700	700	745	900	1	19.6	1	60349	2	1	103		
JUL 16,88	JUL 15,88	700	800	****	****	1	0.2	1	60351	2	1	****	EK	
JUL 18,88	JUL 16,88	800	700	****	****	1	11.8	1	60352	2	1	U 102	I	Z
JUL 19,88	JUL 18,88	700	700	****	****	1	0.4	1	60353	2	1	****	EK	
JUL 20,88	JUL 19,88	700	700	****	****	1	0.2	1	60354	2	1	****	EK	
JUL 21,88	JUL 20,88	700	700	****	****	1	0.2	1	60355	2	1	****	EK	
JUL 22,88	JUL 21,88	700	700	700	915	1	1.0	1	60356	2	1	84		
JUL 23,88	JUL 22,88	700	800	****	****	1	0.2	1	60357	2	1	****	EK	
JUL 24,88	JUL 23,88	800	800	****	****	1	8.4	1	60358	2	1	103		HM
JUL 25,88	JUL 24,88	800	700	930	1000	1	0.6	1	60359	2	1	85		
JUL 26,88	JUL 25,88	700	700	****	****	1	2.2	1	60360	2	1	95		
JUL 27,88	JUL 26,88	700	700	1345	1415	1	8.2	1	60361	2	1	99		
AUG 7,88	AUG 6,88	700	800	1030	1230	1	2.4	1	60363	2	1	105		
AUG 15,88	AUG 14,88	800	700	930	945	1	0.2	1	60364	2	1	****	EK	
AUG 16,88	AUG 15,88	700	700	1930	2030	1	0.8	1	60365	2	1	81		
AUG 18,88	AUG 17,88	700	700	1230	1400	1	1.6	1	60366	2	1	110		HC
AUG 21,88	AUG 20,88	800	800	1600	2100	1	8.4	1	60367	2	1	102		
AUG 24,88	AUG 23,88	700	700	1800	2300	1	9.2	1	60368	2	1	89		
AUG 25,88	AUG 24,88	700	700	2030	2300	1	13.2	1	60369	2	1	98		
AUG 26,88	AUG 25,88	700	700	1030	1100	1	3.8	1	60370	2	1	97		
AUG 27,88	AUG 26,88	700	800	1630	1800	1	14.6	1	60371	2	1	98		H
AUG 28,88	AUG 27,88	800	800	700	800	1	2.2	1	60372	2	1	97		
AUG 29,88	AUG 28,88	800	700	800	1500	1	6.4	1	60373	2	1	100		
AUG 30,88	AUG 29,88	700	700	****	****	1	0.2	1	60374	2	1	****	EK	
AUG 31,88	AUG 30,88	700	700	1400	1500	1	1.4	1	60375	2	1	88		X
SEP 4,88	SEP 3,88	800	800	2300	800	1	2.2	1	60376	2	1	83	Q	X
SEP 5,88	SEP 4,88	800	800	800	800	1	3.2	1	60377	2	1	****	Q	X
SEP 6,88	SEP 5,88	800	700	800	830	1	0.2	1	60378	2	1	****	EK	
SEP 13,88	SEP 12,88	700	700	****	****	1	5.6	1	60379	2	1	99	Q	
SEP 15,88	SEP 14,88	700	700	****	****	1	0.4	1	60380	2	1	****	EK	
SEP 17,88	SEP 16,88	700	800	****	****	1	2.4	1	60381	2	1	82	Q	X
SEP 18,88	SEP 17,88	800	800	800	1300	1	0.8	1	60382	2	1	72	Q	X

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM #9A PAGE : 8

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
JUN 25,88	JUN 24,88	119.0		18.5		4.27		4.74	******		0.0448		2.65		0.56
JUN 26,88	JUN 25,88	407.0		57.5		3.90		3.96	******		0.1510		5.45		0.74
JUN 27,88	JUN 26,88	31.0		5.0		******	UG	5.64	******		0.0216		0.60		0.08
JUN 29,88	JUN 28,88	277.0	LG	4.0	D	4.64		5.44	******		0.0241	LG	0.50	LG	0.06
JUN 30,88	JUN 29,88	189.0	LG	4.0	UG	5.39	UG	6.68	******		0.0175	LG	0.45		0.11
JUL 1,88	JUN 30,88	194.0	LG	3.0		4.80		5.33	******		0.0248	LG	0.35	LG	0.07
JUL 2,88	JUL 1,88	32.0		5.0		******		5.12	******		0.0279	LG	0.50		0.08
JUL 12,88	JUL 11,88	67.0	>	100.0		******	!IS	******	******	!IS	******		16.50		1.90
JUL 15,88	JUL 14,88	1302.0		27.0		******		4.35	******		0.0785		3.20		0.38
JUL 16,88	JUL 15,88	******		******		******		******	******		******		******		******
JUL 18,88	JUL 16,88	776.0		6.0		******		5.19	******		0.0274	LG	0.50		0.10
JUL 19,88	JUL 18,88	******		******		******		******	******		******		******		******
JUL 20,88	JUL 19,88	******		******		******		******	******		******		******		******
JUL 21,88	JUL 20,88	******		******		******		******	******		******		******		******
JUL 22,88	JUL 21,88	54.0		25.5		******		4.31	******		0.0795		1.70		0.68
JUL 23,88	JUL 22,88	******		******		******		******	******		******		******		******
JUL 24,88	JUL 23,88	556.0		5.0		******		5.05	******		0.0309	<T	0.25		0.11
JUL 25,88	JUL 24,88	33.0		11.0		******	!IS	******	******	!IS	******		1.10		0.26
JUL 26,88	JUL 25,88	135.0		71.5		******		3.86	******		0.2170		6.70		1.20
JUL 27,88	JUL 26,88	523.0		86.0		******		3.72	******		0.2420	D	9.45		1.06
AUG 7,88	AUG 6,88	163.0		33.0		******		4.11	******		0.1050		3.50		0.43
AUG 15,88	AUG 14,88	******		******		******		******	******		******		******		******
AUG 16,88	AUG 15,88	42.0		14.0		******	!IS	******	******	!IS	******		2.55		0.13
AUG 18,88	AUG 17,88	113.0		17.0		******		4.97	******		0.0349		1.90		0.49
AUG 21,88	AUG 20,88	550.0		9.5		******	B	5.58	******		0.0252		2.05		0.23
AUG 24,88	AUG 23,88	530.0		62.0		******		3.84	******		0.1850		6.00		1.01
AUG 25,88	AUG 24,88	833.0		37.0		******		4.08	******		0.1160		3.85		0.52
AUG 26,88	AUG 25,88	238.0		21.5		******		4.53	******		0.0563		3.35		0.50
AUG 27,88	AUG 26,88	919.0		6.5		******		5.36	******		0.0255		0.70		0.23
AUG 28,88	AUG 27,88	138.0		87.0		******		3.67	******		0.2430		8.35		1.46
AUG 29,88	AUG 28,88	414.0		30.0		******		4.20	******		0.0896		3.90		0.28
AUG 30,88	AUG 29,88	******		******		******		******	******		******		******		******
AUG 31,88	AUG 30,88	79.0		******		******		******	******		******		******		******
SEP 4,88	SEP 3,88	118.0		******		******		******	******		******		******		******
SEP 5,88	SEP 4,88	******		******		******		******	******		******		******		******
SEP 6,88	SEP 5,88	******		******		******		******	******		******		******		******
SEP 13,88	SEP 12,88	357.0		41.5		******		4.09	******		0.1020		4.00		0.45
SEP 15,88	SEP 14,88	******		******		******		******	******		******		******		******
SEP 17,88	SEP 16,88	127.0		******		******		******	******		******		******		******
SEP 18,88	SEP 17,88	37.0		******		******		******	******		******		******		******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM #9A

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JUN 25,88	JUN 24,88	0.48	0.13	0.045	0.115	0.045	0.724	0.0182
JUN 26,88	JUN 25,88	0.42	0.19	0.070	0.040	<T 0.025	0.446	0.1096
JUN 27,88	JUN 26,88	!IS ******	<T 0.04	!IS ******	!IS ******	!IS ******	0.118	UG 0.0023
JUN 29,88	JUN 28,88	0.18	<T 0.02	<T 0.015	<T 0.010	<T 0.005	D 0.052	0.0036
JUN 30,88	JUN 29,88	0.26	<T 0.02	<T 0.020	<T 0.020	<T 0.025	0.220	UG 0.0002
JUL 1,88	JUN 30,88	<T 0.06	<T 0.02	<T 0.005	<T 0.020	<T 0.015	0.056	0.0047
JUL 2,88	JUL 1,88	!IS ******	<T 0.01	!IS ******	!IS ******	!IS ******	0.090	0.0076
JUL 12,88	JUL 11,88	1.40	0.54	0.170	0.165	0.100	1.720	!IS ******
JUL 15,88	JUL 14,88	0.14	<T 0.05	0.040	<T 0.015	<T 0.010	0.426	0.0447
JUL 16,88	JUL 15,88	******	******	******	******	******	******	******
JUL 18,88	JUL 16,88	<T 0.04	0.23	<T 0.010	<T 0.010	<T 0.015	0.166	0.0065
JUL 19,88	JUL 18,88	******	******	******	******	******	******	******
JUL 20,88	JUL 19,88	******	******	******	******	******	******	******
JUL 21,88	JUL 20,88	******	******	******	******	******	******	******
JUL 22,88	JUL 21,88	0.12	0.07	<T 0.020	0.035	<T 0.020	0.280	0.0490
JUL 23,88	JUL 22,88	******	******	******	******	******	******	******
JUL 24,88	JUL 23,88	<T 0.04	<W 0.01	<T 0.005	<T 0.015	<T 0.010	0.120	0.0089
JUL 25,88	JUL 24,88	0.12	<W 0.01	<T 0.020	<T 0.020	0.040	0.246	!IS ******
JUL 26,88	JUL 25,88	0.30	0.23	0.050	0.035	<T 0.020	0.340	0.1380
JUL 27,88	JUL 26,88	D 0.26	0.15	0.030	0.030	<T 0.015	D 0.426	0.1905
AUG 7,88	AUG 6,88	0.18	<W 0.01	0.025	<T 0.010	<T 0.015	0.216	0.0776
AUG 15,88	AUG 14,88	******	******	******	******	******	******	******
AUG 16,88	AUG 15,88	0.32	0.07	0.045	0.055	0.040	0.336	!IS ******
AUG 18,88	AUG 17,88	0.40	0.07	0.045	0.025	0.045	0.356	0.0107
AUG 21,88	AUG 20,88	0.66	0.05	0.035	0.035	0.035	0.280	B 0.0026
AUG 24,88	AUG 23,88	0.26	0.18	0.035	0.030	0.050	0.340	0.1445
AUG 25,88	AUG 24,88	0.10	<W 0.01	<T 0.005	<T 0.020	<T 0.010	0.290	0.0832
AUG 26,88	AUG 25,88	0.64	0.12	D 0.135	D 0.065	0.045	0.306	0.0295
AUG 27,88	AUG 26,88	0.22	<W 0.01	<T 0.025	<T 0.015	<W 0.005	0.246	0.0044
AUG 28,88	AUG 27,88	0.58	0.32	0.060	0.095	0.035	0.410	0.2138
AUG 29,88	AUG 28,88	<T 0.06	0.05	<T 0.010	0.045	<T 0.010	0.370	0.0631
AUG 30,88	AUG 29,88	******	******	******	******	******	******	******
AUG 31,88	AUG 30,88	******	******	******	******	******	******	******
SEP 4,88	SEP 3,88	******	******	******	******	******	******	******
SEP 5,88	SEP 4,88	******	******	******	******	******	******	******
SEP 6,88	SEP 5,88	******	******	******	******	******	******	******
SEP 13,88	SEP 12,88	0.20	0.13	<T 0.025	<T 0.025	0.040	0.276	0.0813
SEP 15,88	SEP 14,88	******	******	******	******	******	******	******
SEP 17,88	SEP 16,88	******	******	******	******	******	******	******
SEP 18,88	SEP 17,88	******	******	******	******	******	******	******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM #9A PAGE : 10

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
SEP 20,88	SEP 19,88	700	700	****	****	1	0.2	1	60383	2	1	****	EK	
SEP 21,88	SEP 20,88	700	700	900	1000	1	6.6	1	60384	2	1	104		
SEP 22,88	SEP 21,88	700	700	****	****	4	0.2	1	60385	2	1	****	EK	
SEP 23,88	SEP 22,88	700	700	100	700	1	****	1	60386	2	1	12		N
SEP 24,88	SEP 23,88	700	700	700	900	1	1.2	1	60387	2	1	54		
SEP 28,88	SEP 27,88	700	700	1600	2000	1	7.0	1	60388	2	1	97	C	
OCT 2,88	OCT 1,88	800	800	700	800	1	13.2	1	60389	2	1	101	Q	
OCT 3,88	OCT 2,88	800	700	800	1100	1	18.6	1	60390	2	1	88		N
OCT 4,88	OCT 3,88	700	700	****	****	1	0.4	1	60391	2	1	****	EK	
OCT 5,88	OCT 4,88	700	700	530	700	1	8.4	1	60392	2	1	104		
OCT 6,88	OCT 5,88	700	700	700	900	1	6.2	1	60393	2	1	83		
OCT 7,88	OCT 6,88	700	700	****	****	4	0.2	1	60394	2	1	****	EK	
OCT 11,88	OCT 10,88	800	700	1400	2000	1	8.6	1	60395	2	1	U 37	Q	
OCT 13,88	OCT 12,88	700	700	****	****	3	0.4	1	60396	2	1	****	EK	
OCT 18,88	OCT 17,88	700	700	400	700	1	11.4	1	60397	2	1	100		
OCT 19,88	OCT 18,88	700	700	700	1000	1	6.4	1	60398	2	1	90		
OCT 22,88	OCT 21,88	700	800	2200	800	3	23.8	1	60399	2	1	82		N
OCT 23,88	OCT 22,88	800	800	800	1000	3	13.0	1	60400	2	1	U 28	N	NM
OCT 24,88	OCT 23,88	800	700	2230	700	1	1.8	1	60401	2	1	68		
OCT 25,88	OCT 24,88	700	800	700	1130	1	13.8	1	60402	2	1	92		
OCT 26,88	OCT 25,88	800	700	830	930	1	0.8	1	60403	2	1	60		NM
OCT 27,88	OCT 26,88	700	800	****	****	1	2.0	1	60404	2	1	55	Q	
OCT 28,88	OCT 27,88	800	700	530	700	1	1.8	1	60405	2	1	91		
OCT 29,88	OCT 28,88	700	800	700	1100	1	8.8	1	60406	2	1	90		
NOV 2,88	NOV 1,88	700	700	1900	2200	1	6.4	1	60407	2	1	90		
NOV 3,88	NOV 2,88	700	700	700	1100	1	9.0	1	60408	2	1	96		
NOV 5,88	NOV 4,88	700	800	****	****	1	1.4	1	60409	2	1	84		
NOV 6,88	NOV 5,88	800	800	1700	1930	1	12.4	1	60410	2	1	93		
NOV 7,88	NOV 6,88	800	700	1700	1800	1	6.4	1	60411	2	1	89		
NOV 8,88	NOV 7,88	700	800	****	****	1	0.4	1	60412	2	1	****	EK	
NOV 9,88	NOV 8,88	800	700	1100	1400	1	9.0	1	60413	2	1	91		C
NOV 10,88	NOV 9,88	700	700	1100	1130	1	0.6	1	60414	2	1	70		
NOV 11,88	NOV 10,88	700	700	1400	1800	1	4.2	1	60415	2	1	90		
NOV 13,88	NOV 12,88	800	800	****	****	1	2.8	1	60416	2	1	91		
NOV 14,88	NOV 13,88	800	700	800	2000	1	6.0	1	60417	2	1	89		
NOV 17,88	NOV 16,88	700	700	1530	2100	1	5.4	1	60418	2	1	92		
NOV 18,88	NOV 17,88	700	700	1730	1900	1	0.6	1	60419	2	1	78		
NOV 20,88	NOV 19,88	800	800	****	****	1	1.8	1	60420	2	1	78		
NOV 21,88	NOV 20,88	800	700	1800	2100	3	16.6	1	60421	2	1	79		NM
NOV 28,88	NOV 27,88	800	700	930	1100	1	5.6	1	60422	2	1	91		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM #9A

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
SEP 20,88	SEP 19,88	******	******	******	******	******	******	******	******
SEP 21,88	SEP 20,88	444.0	29.5	******	4.26	******	0.0745	2.85	0.32
SEP 22,88	SEP 21,88	******	******	******	******	******	******	******	******
SEP 23,88	SEP 22,88	908.0	19.0	******	4.45	******	0.0580	1.55	0.24
SEP 24,88	SEP 23,88	42.0	62.0	******	4.00	******	0.1290	5.75	1.37
SEP 28,88	SEP 27,88	437.0	55.5	******	4.28	******	0.0848	7.60	1.66
OCT 2,88	OCT 1,88	862.0	26.0	******	4.30	******	0.0726	2.50	0.27
OCT 3,88	OCT 2,88	1057.0	23.5	******	4.36	******	0.0680	D 2.15	0.21
OCT 4,88	OCT 3,88	******	******	******	******	******	******	******	******
OCT 5,88	OCT 4,88	561.0	D 30.0	******	D 4.25	******	D 0.0822	1.55	0.69
OCT 6,88	OCT 5,88	332.0	16.0	******	4.55	******	0.0504	0.70	0.42
OCT 7,88	OCT 6,88	******	******	******	******	******	******	******	******
OCT 11,88	OCT 10,88	204.0	25.0	******	4.51	******	0.0591	4.25	0.64
OCT 13,88	OCT 12,88	******	******	******	******	******	******	******	******
OCT 18,88	OCT 17,88	732.0	25.5	******	4.29	******	0.0782	2.90	0.51
OCT 19,88	OCT 18,88	371.0	19.0	******	4.45	******	0.0621	2.40	0.33
OCT 22,88	OCT 21,88	1258.0	12.0	******	4.57	******	0.0470	1.00	0.33
OCT 23,88	OCT 22,88	239.0	LG 2.0	******	5.39	******	0.0221	<T 0.25	LG 0.06
OCT 24,88	OCT 23,88	79.0	42.0	******	4.03	******	0.1240	2.55	1.15
OCT 25,88	OCT 24,88	816.0	19.5	******	4.46	******	0.0584	2.35	0.45
OCT 26,88	OCT 25,88	31.0	8.5	******	UG 7.18	******	0.0195	1.50	0.38
OCT 27,88	OCT 26,88	71.0	13.0	******	UG 7.00	******	0.0188	1.65	0.49
OCT 28,88	OCT 27,88	105.0	32.5	******	4.23	******	0.0768	3.40	0.66
OCT 29,88	OCT 28,88	509.0	8.0	******	4.77	******	0.0378	0.60	0.16
NOV 2,88	NOV 1,88	372.0	36.0	******	4.08	******	0.0996	1.95	0.85
NOV 3,88	NOV 2,88	558.0	27.5	******	4.22	******	0.0745	2.37	0.40
NOV 5,88	NOV 4,88	76.0	!IR ******	******	4.26	******	0.0658	1.55	0.51
NOV 6,88	NOV 5,88	747.0	17.3	******	4.39	******	0.0548	0.80	0.39
NOV 7,88	NOV 6,88	366.0	31.5	******	4.25	******	0.0866	1.45	0.63
NOV 8,88	NOV 7,88	******	******	******	******	******	******	******	******
NOV 9,88	NOV 8,88	528.0	7.5	******	4.21	******	0.0754	1.80	0.53
NOV 10,88	NOV 9,88	27.0	!IS ******	******	4.33	******	0.0610	!IS ******	!IS ******
NOV 11,88	NOV 10,88	245.0	34.5	******	4.18	******	0.0880	4.05	!CR ******
NOV 13,88	NOV 12,88	164.0	48.0	******	4.01	******	0.1230	3.10	1.31
NOV 14,88	NOV 13,88	343.0	24.0	******	4.29	******	0.0735	3.00	!CR ******
NOV 17,88	NOV 16,88	321.0	21.5	******	4.47	******	0.0543	3.60	0.54
NOV 18,88	NOV 17,88	30.0	18.0	******	4.71	******	0.0420	1.95	0.89
NOV 20,88	NOV 19,88	90.0	37.0	4.06	!IS ******	******	!IS ******	2.30	0.99
NOV 21,88	NOV 20,88	846.0	10.0	4.58	4.59	******	0.0430	0.90	<T 0.05
NOV 28,88	NOV 27,88	328.0	36.0	4.06	4.14	******	0.0986	3.50	0.75

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM #9A PAGE : 12

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
SEP 20,88	SEP 19,88	******	******	******	******	******	******	******
SEP 21,88	SEP 20,88	0.24	0.25	0.030	<T 0.020	0.080	0.146	0.0550
SEP 22,88	SEP 21,88	******	******	******	******	******	******	******
SEP 23,88	SEP 22,88	<T 0.06	0.05	<W 0.005	<W 0.005	<W 0.005	0.146	0.0355
SEP 24,88	SEP 23,88	0.72	0.15	0.090	0.060	0.110	1.060	0.1000
SEP 28,88	SEP 27,88	2.52	0.32	0.385	0.090	0.055	1.060	0.0525
OCT 2,88	OCT 1,88	<T 0.08	0.11	<T 0.010	<T 0.010	0.035	0.290	0.0501
OCT 3,88	OCT 2,88	<T 0.06	0.05	<W 0.005	<W 0.005	<T 0.015	D 0.156	0.0437
OCT 4,88	OCT 3,88	******	******	******	******	******	******	******
OCT 5,88	OCT 4,88	<T 0.06	0.06	<T 0.005	<T 0.010	<W 0.005	0.296	D 0.0562
OCT 6,88	OCT 5,88	0.10	<T 0.03	<T 0.005	<W 0.005	<W 0.005	0.116	0.0282
OCT 7,88	OCT 6,88	******	******	******	******	******	******	******
OCT 11,88	OCT 10,88	0.32	<T 0.05	0.070	0.040	<T 0.020	1.110	0.0309
OCT 13,88	OCT 12,88	******	******	******	******	******	******	******
OCT 18,88	OCT 17,88	0.30	0.11	0.055	0.035	0.065	0.236	0.0513
OCT 19,88	OCT 18,88	0.16	<T 0.03	0.030	0.045	0.040	0.366	0.0355
OCT 22,88	OCT 21,88	<T 0.04	<T 0.03	<T 0.010	<W 0.005	0.055	0.076	0.0269
OCT 23,88	OCT 22,88	<T 0.02	<W 0.01	<W 0.005	<W 0.005	<W 0.005	<T 0.020	0.0041
OCT 24,88	OCT 23,88	0.14	0.10	<T 0.020	<T 0.025	<T 0.015	0.290	0.0933
OCT 25,88	OCT 24,88	0.16	<T 0.02	D 0.030	0.030	0.165	0.376	0.0347
OCT 26,88	OCT 25,88	0.54	0.39	0.080	0.170	UG 0.260	0.506	UG 0.0001
OCT 27,88	OCT 26,88	1.54	0.32	0.115	0.110	0.130	0.400	UG 0.0001
OCT 28,88	OCT 27,88	D 0.82	<W 0.01	D 0.115	0.055	0.070	0.176	0.0589
OCT 29,88	OCT 28,88	<T 0.02	0.08	<W 0.005	<T 0.010	<T 0.005	LG 0.050	0.0170
NOV 2,88	NOV 1,88	0.16	0.53	<T 0.020	0.025	0.035	0.280	0.0832
NOV 3,88	NOV 2,88	0.10	0.20	<T 0.015	<T 0.015	<T 0.020	0.166	0.0603
NOV 5,88	NOV 4,88	0.14	1.13	0.080	0.045	UG 0.635	0.096	0.0550
NOV 6,88	NOV 5,88	<T 0.06	<W 0.01	<T 0.010	<T 0.015	0.040	0.080	0.0407
NOV 7,88	NOV 6,88	<T 0.04	<W 0.01	<T 0.005	<T 0.015	<T 0.010	0.246	0.0562
NOV 8,88	NOV 7,88	******	******	******	******	******	******	******
NOV 9,88	NOV 8,88	0.12	<W 0.01	<T 0.010	<T 0.010	<T 0.015	0.266	0.0617
NOV 10,88	NOV 9,88	0.50	!IS ******	0.040	0.030	0.065	0.030	0.0468
NOV 11,88	NOV 10,88	0.74	0.45	0.070	0.055	0.225	0.270	0.0661
NOV 13,88	NOV 12,88	0.46	1.12	0.115	0.070	UG 0.685	0.380	0.0977
NOV 14,88	NOV 13,88	0.12	0.20	<T 0.025	<T 0.020	0.100	0.300	0.0513
NOV 17,88	NOV 16,88	0.90	0.23	0.055	0.035	0.090	0.250	0.0339
NOV 18,88	NOV 17,88	!IS ******	0.21	!IS ******	!IS ******	!IS ******	0.526	0.0195
NOV 20,88	NOV 19,88	!IS ******	0.07	!IS ******	!IS ******	!IS ******	0.366	!IS ******
NOV 21,88	NOV 20,88	<W 0.02	<T 0.05	<W 0.005	<T 0.005	<T 0.005	0.070	0.0257
NOV 28,88	NOV 27,88	0.28	0.27	0.045	0.040	0.140	0.346	0.0724

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM 89A

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 29,88	NOV 28,88	700	700	1200	1500	1	1.2	2	60423	2	1	91		
DEC 1,88	NOV 30,88	700	700	1030	1530	1	0.6	2	60424	2	1	75		
DEC 5,88	DEC 4,88	800	700	1400	1530	2	0.4	2	60425	2	1	35		N
DEC 11,88	DEC 10,88	800	800	****	****	2	0.4	2	60426	2	1	****	EK	
DEC 14,88	DEC 13,88	700	700	1300	1700	2	2.2	2	60427	2	1	79	Q	C
DEC 15,88	DEC 14,88	700	700	****	****	3	8.4	2	60428	2	1	80		C
DEC 17,88	DEC 16,88	700	700	****	****	2	1.4	2	60429	2	1	86	Q	C
DEC 18,88	DEC 17,88	700	800	930	1400	2	11.4	2	60430	2	1	79		
DEC 19,88	DEC 18,88	800	700	****	****	2	0.4	2	60431	2	1	****	EK	
DEC 20,88	DEC 19,88	700	700	****	****	3	2.4	2	60432	2	1	80	A	
DEC 21,88	DEC 20,88	700	700	****	****	1	2.0	2	60433	2	1	151	C	N
DEC 23,88	DEC 22,88	700	800	****	****	3	2.6	2	60434	2	1	76	Q	
DEC 24,88	DEC 23,88	800	800	800	930	2	0.6	2	60435	2	1	****	EK	
DEC 25,88	DEC 24,88	800	800	1001	1300	3	8.8	2	60436	2	1	78	Q	N
DEC 26,88	DEC 25,88	800	800	****	****	2	0.8	2	60437	2	1	40	Q	
DEC 27,88	DEC 26,88	800	800	****	****	2	3.4	2	60438	2	1	69	Q	M
DEC 28,88	DEC 27,88	800	800	800	2100	3	14.2	2	60439	2	1	96	Q	
DEC 29,88	DEC 28,88	800	800	1200	1400	2	1.8	2	60440	2	1	59		H
DEC 31,88	DEC 30,88	800	800	****	****	2	0.4	2	60441	2	1	****	EK	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM #9A PAGE : 14

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 29,88	NOV 28,88	70.0	41.0	4.51	!IS ******	******	!IS ******	3.95	2.04
DEC 1,88	NOV 30,88	29.0	46.0	******	4.33	******	0.0794	!IR ******	0.18
DEC 5,88	DEC 4,88	9.0	LG 2.0	******	UG 5.65	******	0.0209	<T 0.20	LG 0.09
DEC 11,88	DEC 10,88	******	******	******	******	******	******	******	******
DEC 14,88	DEC 13,88	112.0	10.0	******	UG 6.48	******	LG 0.0159	1.10	0.86
DEC 15,88	DEC 14,88	433.0	23.0	******	4.25	******	0.0872	2.25	0.96
DEC 17,88	DEC 16,88	78.0	36.0	******	4.05	******	0.1340	0.70	1.99
DEC 18,88	DEC 17,88	583.0	62.5	******	3.99	******	0.1560	0.75	1.72
DEC 19,88	DEC 18,88	******	******	******	******	******	******	******	******
DEC 20,88	DEC 19,88	124.0	74.0	******	3.90	******	0.1810	5.15	1.24
DEC 21,88	DEC 20,88	194.0	58.0	******	4.13	******	0.1230	6.25	0.98
DEC 23,88	DEC 22,88	128.0	42.0	******	4.15	******	0.1070	3.40	0.79
DEC 24,88	DEC 23,88	******	******	******	******	******	******	******	******
DEC 25,88	DEC 24,88	444.0	21.0	******	4.45	******	0.0592	1.75	0.40
DEC 26,88	DEC 25,88	21.0	LG 4.0	******	UG 5.63	******	0.0187	1.00	0.14
DEC 27,88	DEC 26,88	152.0	5.5	******	4.10	******	0.0237	<T 0.20	0.19
DEC 28,88	DEC 27,88	878.0	32.0	******	4.26	******	0.0835	2.50	0.48
DEC 29,88	DEC 28,88	69.0	8.0	******	UG 6.43	******	LG 0.0160	0.90	0.38
DEC 31,88	DEC 30,88	******	******	******	******	******	******	******	******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM #9A

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
NOV 29,88	NOV 28,88	!IS ******	0.70	!IS ******	!IS ******	!IS ******	0.676	!IS ******
DEC 1,88	NOV 30,88	!IS ******	0.74	!IS ******	!IS ******	!IS ******	0.796	0.0468
DEC 5,88	DEC 4,88	<T 0.10	0.10	<T 0.010	<T 0.025	0.030	0.090	UG 0.0022
DEC 11,88	DEC 10,88	******	******	******	******	******	******	******
DEC 14,88	DEC 13,88	1.64	0.87	0.165	0.055	0.325	0.116	UG 0.0003
DEC 15,88	DEC 14,88	0.24	0.19	0.030	0.035	0.050	0.536	0.0562
DEC 17,88	DEC 16,88	0.86	1.07	0.100	0.045	0.370	0.080	0.0891
DEC 18,88	DEC 17,88	0.24	1.20	0.035	<T 0.010	0.240	0.130	0.1023
DEC 19,88	DEC 18,88	******	******	******	******	******	******	******
DEC 20,88	DEC 19,88	0.58	0.57	0.055	0.030	0.185	0.366	0.1259
DEC 21,88	DEC 20,88	1.18	1.10	0.145	0.125	0.545	0.656	0.0741
DEC 23,88	DEC 22,88	0.30	0.44	0.060	0.030	0.295	0.260	0.0708
DEC 24,88	DEC 23,88	******	******	******	******	******	******	******
DEC 25,88	DEC 24,88	0.14	0.12	<T 0.020	<T 0.020	0.060	0.206	0.0355
DEC 26,88	DEC 25,88	<T 0.08	0.09	<T 0.015	<T 0.020	0.100	!IS ******	UG 0.0023
DEC 27,88	DEC 26,88	<T 0.04	0.16	<T 0.005	[illegible] 0.005	0.050	0.056	0.0079
DEC 28,88	DEC 27,88	0.12	0.42	<T [illegible]	0.025	0.175	0.210	0.0550
DEC 29,88	DEC 28,88	0.54	0.23	[illegible]	0.060	0.090	0.246	UG 0.0004
DEC 31,88	DEC 30,88	******	******	******	******	******	******	******

PART VII

SOUTHWESTERN REGION

DAILY PRECIPITATION CHEMISTRY LISTINGS

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : EGBERT/DAILY/AEROCHEM

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 29,88	NOV 27,88	835	840	740	2200	3	1.4	2	42145	2	1	75		Y2
NOV 30,88	NOV 29,88	840	834	805	805	1	0.2	1	42146	2	1	****		N
DEC 1,88	NOV 30,88	840	810	805	1400	3	0.7	2	42144	2	1	U 15	CJ	
DEC 4,88	DEC 3,88	900	900	1525	1525	3	0.6	2	42123	2	1	U 38	BCFEJ	
DEC 9,88	DEC 8,88	840	840	****	****	2	0.6	2	42138	2	1	U 156	J	
DEC 10,88	DEC 9,88	840	850	****	****	2	1.8	2	42139	2	1	U 139	F	
DEC 11,88	DEC 10,88	850	920	920	1345	2	1.0	2	42140	2	1	U 184	J	
DEC 13,88	DEC 12,88	829	829	****	****	2	1.0	2	42141	2	1	U 84	J	HCM
DEC 14,88	DEC 13,88	829	840	****	****	2	****	2	42142	2	1	****		
DEC 15,88	DEC 14,88	840	820	****	****	1	0.4	2	42143	2	1	269		N
DEC 16,88	DEC 15,88	820	845	****	****	2	5.5	2	42512	2	1	1012		HC
DEC 18,88	DEC 17,88	848	900	****	****	2	0.5	2	42514	2	1	59		N
DEC 19,88	DEC 18,88	900	850	****	****	2	1.1	2	42515	2	1	153		HCM
DEC 20,88	DEC 19,88	850	845	****	****	1	0.6	2	42516	2	1	104		
DEC 21,88	DEC 20,88	845	845	****	****	4	0.5	1	42517	2	1	18	E	N
DEC 23,88	DEC 21,88	845	1015	****	****	3	7.4	2	42518	2	1	U 90	G	Y2
DEC 25,88	DEC 23,88	1015	840	1300	1300	2	4.0	2	42519	2	1	84	C	Y2
DEC 26,88	DEC 25,88	840	915	845	845	2	0.4	2	42520	2	1	U 261	G	
DEC 27,88	DEC 26,88	915	849	****	****	3	6.4	2	42521	2	1	77	C	
DEC 28,88	DEC 27,88	849	840	800	800	3	7.8	2	42522	2	1	U 100	FC	
DEC 29,88	DEC 28,88	840	757	****	****	2	0.5	2	42523	2	1	U 71	EFC	
DEC 30,88	DEC 29,88	910	840	****	****	2	0.2	2	40026	2	1	****	E	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : EGBERT/DAILY/AEROCHEM

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 29,88	NOV 27,88	68.0	!IS ******	******	4.29	******	0.0769	2.85	0.56
NOV 30,88	NOV 29,88	******	******	******	******	******	******	******	******
DEC 1,88	NOV 30,88	7.0	!IS ******	******	5.38	******	0.0206	LQ 0.35	0.14
DEC 4,88	DEC 3,88	15.0	******	******	******	******	******	******	******
DEC 9,88	DEC 8,88	60.0	******	******	******	******	******	******	******
DEC 10,88	DEC 9,88	161.0	7.0	******	5.02	******	0.0263	0.60	0.32
DEC 11,88	DEC 10,88	118.0	!IS ******	****** D	4.86	****** D	0.0422	!IS ******	!IS ******
DEC 13,88	DEC 12,88	54.0	5.5	******	6.25	****** U	1.0880	LG 0.50	0.29
DEC 14,88	DEC 13,88	67.0	!IS ******	******	4.33	******	0.0740	!IS ******	!IS ******
DEC 15,88	DEC 14,88	69.0	!IS ******	******	4.80	******	0.0485	!IS ******	!IS ******
DEC 16,88	DEC 15,88	3571.0	LG 4.0	****** D	5.08	****** D	0.0236	0.80	LG 0.09
DEC 18,88	DEC 17,88	19.0	13.5	******	4.44	****** D	0.0572	LG 0.10	0.62
DEC 19,88	DEC 18,88	108.0	7.5	******	4.93	******	0.0289	LG 0.30	0.42
DEC 20,88	DEC 19,88	40.0	25.0	******	4.31	******	0.0735	3.50	0.34
DEC 21,88	DEC 20,88	6.0	******	******	******	******	******	******	******
DEC 23,88	DEC 21,88	428.0	16.0	******	4.64	******	0.0441	2.45	0.52
DEC 25,88	DEC 23,88	217.0	16.5	******	4.47	******	0.0552	1.60	0.39
DEC 26,88	DEC 25,88	67.0	!IS ******	******	5.51	******	0.0127	!IS ******	!IS ******
DEC 27,88	DEC 26,88	317.0	9.0	******	4.65	******	0.0394	0.55	0.33
DEC 28,88	DEC 27,88	503.0	16.5	******	4.37	******	0.0613	1.96	0.29
DEC 29,88	DEC 28,88	23.0	******	******	******	******	******	******	******
DEC 30,88	DEC 29,88	******	******	******	******	******	******	******	******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : EGBERT/DAILY/AEROCHEM

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
NOV 29,88	NOV 27,88	0.16	0.12	0.025	<T 0.025	0.045	0.416	0.0513
NOV 30,88	NOV 29,88	******	******	******	******	******	******	******
DEC 1,88	NOV 30,88	!IS ******	0.06	!IS ******	!IS ******	!IS ******	0.140	0.0042
DEC 4,88	DEC 3,88	******	******	******	******	******	******	******
DEC 9,88	DEC 8,88	******	******	******	******	******	******	******
DEC 10,88	DEC 9,88	0.30	0.38	0.040	<T 0.010	0.210	0.116	0.0095
DEC 11,88	DEC 10,88	0.16	!IS ******	<T 0.020	<T 0.010	0.675	0.066	D 0.0138
DEC 13,88	DEC 12,88	1.58	<W 0.01	0.320	0.050	UG 0.805	0.086	0.0006
DEC 14,88	DEC 13,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	0.0468
DEC 15,88	DEC 14,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	0.0158
DEC 16,88	DEC 15,88	0.26	0.30	0.060	<T 0.020	0.170	LG 0.050	D 0.0083
DEC 18,88	DEC 17,88	0.16	0.13	<T 0.020	<T 0.015	0.035	!IS ******	0.0363
DEC 19,88	DEC 18,88	0.64	0.78	0.075	<T 0.005	D 0.435	0.114	0.0117
DEC 20,88	DEC 19,88	0.62	0.24	0.070	<T 0.020	0.130	!IS ******	0.0490
DEC 21,88	DEC 20,88	******	******	******	******	******	******	******
DEC 23,88	DEC 21,88	0.92	0.17	0.060	<T 0.020	0.080	0.256	0.0229
DEC 25,88	DEC 23,88	0.22	0.27	0.025	<T 0.025	0.040	0.258	0.0339
DEC 26,88	DEC 25,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	0.0031
DEC 27,88	DEC 26,88	0.20	0.23	0.025	0.025	0.105	B 0.036	0.0224
DEC 28,88	DEC 27,88	<T 0.08	D 0.28	<T 0.010	<T 0.015	0.045	0.128	0.0427
DEC 29,88	DEC 28,88	******	******	******	******	******	******	******
DEC 30,88	DEC 29,88	******	******	******	******	******	******	******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 14,88	JAN 13,88	800	800	1900	2400	2	4.0	2	64771	2	1	65	C	
JAN 18,88	JAN 17,88	800	800	1500	2400	1	11.7	2	64772	2	1	110		
JAN 20,88	JAN 19,88	800	800	2200	100	1	1.8	2	64773	2	1	57		
JAN 22,88	JAN 21,88	800	800	900	1100	2	0.6	2	64774	2	1	64		
JAN 24,88	JAN 23,88	800	800	1600	2300	3	2.8	2	64775	2	1	76		
JAN 26,88	JAN 25,88	800	800	500	900	1	3.8	2	64776	2	1	73		
JAN 27,88	JAN 26,88	800	800	800	1000	1	1.1	2	64777	2	1	89		HCM
FEB 1,88	JAN 31,88	800	800	1300	2100	1	5.5	2	64778	2	1	120		N
FEB 2,88	FEB 1,88	800	800	1900	300	3	9.2	2	64779	2	1	89		
FEB 5,88	FEB 4,88	800	800	****	****	2	0.1	2	64781	2	1	****	E	N
FEB 9,88	FEB 8,88	800	800	300	800	2	1.9	2	64782	2	1	80		
FEB 12,88	FEB 11,88	1000	1000	1500	2400	2	11.0	2	64783	2	1	34		N
FEB 13,88	FEB 12,88	1000	800	2100	200	2	2.0	2	64784	2	1	20		N
FEB 15,88	FEB 14,88	800	800	100	600	1	2.2	2	64785	2	1	95		
FEB 17,88	FEB 16,88	800	800	2400	600	2	1.2	2	64786	2	1	70		
FEB 20,88	FEB 19,88	800	800	1100	2200	3	11.4	2	64787	2	1	101		
FEB 21,88	FEB 20,88	800	800	1500	1800	3	2.8	2	64790	2	1	45	C	N
FEB 25,88	FEB 24,88	800	800	1400	1500	2	1.6	2	64791	2	1	27	C	N
FEB 27,88	FEB 26,88	800	900	2400	800	2	1.0	2	64792	2	1	51		
MAR 9,88	MAR 8,88	800	800	500	700	1	1.1	2	64793	2	1	60		
MAR 13,88	MAR 12,88	800	800	1000	1800	1	6.6	2	64794	2	1	102		
MAR 14,88	MAR 13,88	800	800	1500	2400	2	4.8	2	64795	2	1	33		NC
MAR 15,88	MAR 14,88	800	800	1000	1400	2	1.6	2	64796	2	1	60		
MAR 17,88	MAR 16,88	800	800	1000	1100	2	0.8	2	64797	2	1	56	C	
MAR 19,88	MAR 18,88	800	800	****	****	2	1.0	2	64798	2	1	73		
MAR 20,88	MAR 19,88	800	900	1800	700	2	4.8	2	64799	2	1	U 41	F	JHM
MAR 24,88	MAR 23,88	800	800	2000	2400	1	1.4	2	64800	2	1	177	C	NJ
MAR 25,88	MAR 24,88	800	800	1000	1700	1	1.5	2	64801	2	1	134		N
MAR 26,88	MAR 25,88	800	800	830	1500	1	15.6	2	64802	2	1	105		
MAR 27,88	MAR 26,88	800	800	1500	1800	1	1.2	2	64805	2	1	171	CD	NJH
MAR 30,88	MAR 29,88	800	800	1700	1900	1	1.0	1	64806	2	1	48	C	N
APR 3,88	APR 2,88	800	1000	900	1000	1	8.2	1	64807	2	1	97		
APR 4,88	APR 3,88	1000	900	1100	1400	1	4.2	1	64808	2	1	91		
APR 7,88	APR 6,88	800	800	1700	2000	1	10.0	1	64809	2	1	99	D	
APR 15,88	APR 14,88	800	800	900	1000	1	3.8	1	64810	2	1	85		J
APR 18,88	APR 17,88	600	800	2200	100	1	6.2	1	64811	2	1	101	C	J
APR 21,88	APR 20,88	800	800	1700	2200	1	5.6	1	64812	2	1	95	Q	JC
APR 23,88	APR 22,88	800	900	100	400	1	4.8	1	64813	2	1	98	Q	JHM
APR 24,88	APR 23,88	900	800	600	700	1	0.6	1	64814	2	1	85		
APR 27,88	APR 26,88	800	800	900	1100	1	2.4	1	64815	2	1	94	B	J

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02 PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM		PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L	NITRATE AS N MG/L
JAN 14,88	JAN 13,88	169.0	62.5	UG	7.40	UG	7.77	******		0.0111		3.50	0.72
JAN 18,88	JAN 17,88	827.0	25.0		4.04	D	4.25	******		0.0845		2.55	0.54
JAN 20,88	JAN 19,88	66.0	39.0		******		4.20	******		0.1100		4.15	1.21
JAN 22,88	JAN 21,88	25.0	9.0		******	UG	7.40	******		0.0162		1.50	0.14
JAN 24,88	JAN 23,88	138.0	42.0		3.91		4.12	******		0.1170		3.65	1.62
JAN 26,88	JAN 25,88	178.0	15.5		4.49		4.93	******		0.0345		1.20	0.55
JAN 27,88	JAN 26,88	63.0	9.5		******	UG	6.82	******		0.0228	LQ	0.45	0.44
FEB 1,88	JAN 31,88	426.0	30.5		4.09		4.35	******		0.0693	D	3.30	0.53
FEB 2,88	FEB 1,88	527.0	23.5		4.26		4.52	******		0.0509		2.10	0.29
FEB 5,88	FEB 4,88	******	******		******		******	******		******		******	******
FEB 9,88	FEB 8,88	98.0	49.5		******		4.02	******		0.1160	LQ	0.40	1.49
FEB 12,88	FEB 11,88	242.0	D 55.0		4.01		4.00	******		0.1280		2.75	1.40
FEB 13,88	FEB 12,88	26.0	!IS ******		******	D	5.47	******		0.0236		0.85	0.65
FEB 15,88	FEB 14,88	134.0	58.5		4.00		4.05	******		0.1230		5.15	1.10
FEB 17,88	FEB 16,88	54.0	40.0		******		4.91	******		0.0410		3.35	1.96
FEB 20,88	FEB 19,88	744.0	46.0		3.92		4.12	******		0.1060		2.95	0.90
FEB 21,88	FEB 20,88	81.0	30.0		******		4.67	******		0.0513	D	2.90	0.88
FEB 25,88	FEB 24,88	28.0	D 71.0		******	UG	7.93	******	<T	0.0044	D	2.90	1.23
FEB 27,88	FEB 26,88	33.0	36.0		******	UG	7.20	******		0.0198		3.25	2.42
MAR 9,88	MAR 8,88	43.0	!IS ******		******	UG	7.34	******		0.0187	UG	10.10	2.60
MAR 13,88	MAR 12,88	434.0	33.0		4.19		4.38	******		0.0700		3.30	0.56
MAR 14,88	MAR 13,88	103.0	21.0		4.69		4.81	******		0.0401		1.85	0.62
MAR 15,88	MAR 14,88	62.0	!IR ******		******	!IR	******	******	!IR	******	!IR	******	!IR ******
MAR 17,88	MAR 16,88	29.0	16.0		******	UG	7.46	******		0.0124		1.95	0.18
MAR 19,88	MAR 18,88	47.0	63.0		******		4.12	******		0.1260		4.20	> 2.00
MAR 20,88	MAR 19,88	128.0	12.5	B	5.76	UG	7.46	******		0.0153		0.80	0.59
MAR 24,88	MAR 23,88	159.0	65.0	B	6.60	UG	7.61	******		0.0113	UG	8.95	1.98
MAR 25,88	MAR 24,88	129.0	D 88.5		3.78	D	3.93	******	D	0.1800	B	8.35	2.10
MAR 26,88	MAR 25,88	1054.0	17.0		4.41		4.75	******		0.0408		2.10	0.25
MAR 27,88	MAR 26,88	132.0	27.5	UG	6.05	UG	7.07	******		0.0227		5.15	0.87
MAR 30,88	MAR 29,88	31.0	!IR ******		******		4.57	******		0.0777	!IS	******	!IS ******
APR 3,88	APR 2,88	512.0	37.0		4.03		4.28	******		0.0837		4.30	0.70
APR 4,88	APR 3,88	247.0	20.0		4.24		4.52	******		0.0522		1.55	0.24
APR 7,88	APR 6,88	635.0	85.0	LG	3.39		3.73	******		0.2380		7.70	1.80
APR 15,88	APR 14,88	208.0	47.0	UG	6.24	UG	7.14	******		0.0230		6.90	1.78
APR 18,88	APR 17,88	403.0	48.0	UG	6.42	UG	7.33	******		0.0248		6.85	1.24
APR 21,88	APR 20,88	344.0	36.5	UG	6.30	UG	7.45	******		0.0168		4.10	0.76
APR 23,88	APR 22,88	304.0	30.8		4.20		6.31	******		0.0357		6.15	0.63
APR 24,88	APR 23,88	33.0	13.5		******		5.66	******		0.0250		3.20	0.28
APR 27,88	APR 26,88	146.0	28.0	UG	5.84	UG	6.97	******		0.0220	D	4.25	0.74

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L	
JAN 14,88	JAN 13,88	U	8.86		0.84	U	2.890		0.170		0.365		0.300	UG	0.0000
JAN 18,88	JAN 17,88	D	0.58	D	0.42	D	0.080	D	0.100	D	0.215		0.190	D	0.0562
JAN 20,88	JAN 19,88		0.84	D	1.05	D	0.120	B	0.670	D	0.485		0.57		0.0631
JAN 22,88	JAN 21,88	!IS	******		0.31	!IS	******	!IS	******	!IS	******		0.220	UG	0.0000
JAN 24,88	JAN 23,88		0.94		0.52		0.150		0.060		0.140		0.720		0.0759
JAN 26,88	JAN 25,88		0.52		0.46		0.085		0.195		0.135		0.300		0.0117
JAN 27,88	JAN 26,88		0.56		0.26		0.070		0.030		0.145		0.230	UG	0.0002
FEB 1,88	JAN 31,88	D	0.48	D	0.79	D	0.090	D	0.110	D	0.485	D	0.550		0.0447
FEB 2,88	FEB 1,88		0.18		0.18		0.030		0.060		0.120		0.340		0.0302
FEB 5,88	FEB 4,88		******		******		******		******		******		******		******
FEB 9,88	FEB 8,88		0.30		0.67		0.050		0.105		0.290		0.080		0.0955
FEB 12,88	FEB 11,88		0.30	D	0.55		0.055	D	0.045	D	0.175		0.600		0.1000
FEB 13,88	FEB 12,88	!IS	******		0.37	!IS	******	!IS	******	!IS	******		0.160	D	0.0034
FEB 15,88	FEB 14,88		0.92		0.71		0.120		0.120		0.430		0.500		0.0891
FEB 17,88	FEB 16,88	!IS	******		1.13	!IS	******	!IS	******	!IS	******		0.640		0.0123
FEB 20,88	FEB 19,88		0.24		0.22		0.030		0.050		0.075		0.460		0.0759
FEB 21,88	FEB 20,88	D	0.74		0.22	D	0.070	D	0.085		0.095		0.710		0.0214
FEB 25,88	FEB 24,88	!IS	******	B	2.55	!IS	******	!IS	******	!IS	******		0.610	UG	0.0000
FEB 27,88	FEB 26,88	!IS	******		1.01	!IS	******	!IS	******	!IS	******		0.630	UG	0.0001
MAR 9,88	MAR 8,88	!IS	******	UG	3.85	!IS	******	!IS	******	!IS	******	!IR	******	UG	0.0000
MAR 13,88	MAR 12,88		0.56		0.22		0.070		0.045		0.105		0.410		0.0417
MAR 14,88	MAR 13,88		0.66		0.15		0.065		0.060		0.070		0.340		0.0155
MAR 15,88	MAR 14,88	!IR	******	!IR	******	!IR	******	!IR	******	!IR	******	!IR	******	!IR	******
MAR 17,88	MAR 16,88	!IS	******		0.88	!IS	******	!IS	******	!IS	******		0.440	UG	0.0000
MAR 19,88	MAR 18,88		1.02		0.86		0.160		0.100		0.165		1.370		0.0759
MAR 20,88	MAR 19,88		0.92		0.44		0.175		0.055		0.130		0.340	UG	0.0000
MAR 24,88	MAR 23,88	UG	3.66		1.06	B	0.985	D	0.355		0.715	UG	2.550	UG	0.0000
MAR 25,88	MAR 24,88		0.80	D	0.70		0.145		0.210		0.285	D	1.920	D	0.1175
MAR 26,88	MAR 25,88		0.18		0.13		0.035		0.025		0.110		0.290		0.0178
MAR 27,88	MAR 26,88	D	1.22	D	0.35	D	0.260	D	0.355		0.170		1.430	UG	0.0001
MAR 30,88	MAR 29,88	!IS	******		0.86	!IS	******	!IS	******	!IS	******		1.600		0.0269
APR 3,88	APR 2,88		0.84		0.36		0.125		0.095		0.260		0.410		0.0525
APR 4,88	APR 3,88		0.24	<T	0.04		0.030		0.035		0.040		0.150		0.0302
APR 7,88	APR 6,88		0.68		0.43		0.085		0.075		0.080		0.990		0.1862
APR 15,88	APR 14,88		1.36		0.78		0.245		0.320		0.440	UG	3.400	UG	0.0001
APR 18,88	APR 17,88		1.96		0.36		0.575	D	0.195	D	0.205	UG	2.700	UG	0.0000
APR 21,88	APR 20,88		2.94		0.24		0.550		0.070		0.170		1.180	UG	0.0000
APR 23,88	APR 22,88	D	1.66	D	0.25	D	0.310	B	1.040	D	0.190		1.260		0.0005
APR 24,88	APR 23,88	!IS	******		0.09	!IS	******	!IS	******	!IS	******		0.780		0.0022
APR 27,88	APR 26,88		0.60		0.12		0.135	B	0.560		0.110		1.920	UG	0.0001

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
APR 28,88	APR 27,88	800	800	900	1100	1	3.5	1	64816	2	1	86	B	J
APR 29,88	APR 28,88	800	800	1100	1200	1	1.4	1	64817	2	1	85	C	
APR 30,88	APR 29,88	800	800	1000	2200	1	1.0	1	64818	2	1	76		
MAY 10,88	MAY 9,88	800	800	1700	1600	1	12.8	1	64819	2	1	119	C	JH
MAY 14,88	MAY 13,88	800	800	900	1000	1	0.6	1	64820	2	1	59		
MAY 16,88	MAY 15,88	800	800	1900	2100	1	22.0	1	64821	2	1	134		NJ
MAY 17,88	MAY 16,88	800	800	1200	1300	3	2.8	1	64829	2	1	47		N
MAY 19,88	MAY 18,88	800	800	2000	****	1	1.2	1	64828	2	1	96		
MAY 20,88	MAY 19,88	800	800	1100	1300	1	1.8	1	64824	2	1	91		
MAY 21,88	MAY 20,88	800	900	200	830	1	5.0	1	64825	2	1	97		
MAY 22,88	MAY 21,88	900	900	1000	1800	1	3.6	1	64826	2	1	94		
JUN 2,88	JUN 1,88	800	800	2100	2300	1	16.2	1	64827	2	1	100		J
JUN 7,88	JUN 6,88	800	800	1600	2100	1	2.8	1	64830	2	1	105		
JUN 23,88	JUN 22,88	800	800	2100	2200	1	2.4	1	64832	2	1	****	CE	N
JUN 29,88	JUN 28,88	800	800	2000	2100	1	0.2	1	64833	2	1	148		N
JUL 11,88	JUL 10,88	800	800	2100	2300	1	7.8	1	64834	2	1	98		J
JUL 17,88	JUL 16,88	800	800	1500	1800	1	48.2	1	64836	2	1	71		J
JUL 23,88	JUL 22,88	800	1000	700	1000	1	4.6	1	61586	2	1	28		NH
JUL 28,88	JUL 27,88	800	800	2000	2300	1	7.0	1	64839	2	1	94		J
JUL 31,88	JUL 30,88	800	800	1200	1900	1	7.8	1	64840	2	1	84		J
AUG 1,88	JUL 31,88	800	800	700	1700	1	8.0	1	64841	2	1	99		JH
AUG 3,88	AUG 2,88	800	800	1600	1700	1	10.2	1	64842	2	1	96	B	J
AUG 6,88	AUG 5,88	800	800	2030	2200	1	16.0	1	64843	2	1	96		J
AUG 10,88	AUG 9,88	800	800	100	300	1	69.0	1	64846	2	1	118		J
AUG 15,88	AUG 14,88	800	800	100	200	1	41.0	1	64849	2	1	101		J
AUG 18,88	AUG 17,88	800	800	2100	2300	1	16.0	1	64850	2	1	100		J
AUG 24,88	AUG 23,88	800	800	1100	1300	1	13.0	1	64851	2	1	99		J
AUG 25,88	AUG 24,88	800	800	1900	2030	1	1.6	1	64852	2	1	63		
AUG 28,88	AUG 27,88	800	800	****	****	1	1.1	1	64853	2	1	77		
SEP 3,88	SEP 2,88	800	800	2300	2400	1	1.6	1	64854	2	1	49		N
SEP 4,88	SEP 3,88	800	800	2000	300	1	49.2	1	64855	2	1	103		
SEP 5,88	SEP 4,88	800	800	1200	1600	1	22.0	1	64858	2	1	104		M
SEP 6,88	SEP 5,88	800	800	100	400	1	1.8	1	64859	2	1	68	C	HM
SEP 13,88	SEP 12,88	800	800	1500	1600	1	2.6	1	64863	2	1	76		J
SEP 17,88	SEP 16,88	800	800	2300	200	1	3.0	1	64864	2	1	84		
SEP 18,88	SEP 17,88	800	800	2200	200	1	4.0	1	64865	2	1	99		
SEP 20,88	SEP 19,88	800	800	2200	2400	1	1.6	1	64866	2	1	92	C	C
SEP 23,88	SEP 22,88	800	800	2100	2300	1	20.0	1	64867	2	1	103		NJ
SEP 28,88	SEP 27,88	800	800	2300	400	1	2.2	1	64868	2	1	73		HCM
OCT 1,88	SEP 30,88	800	800	100	300	1	1.6	1	64869	2	1	62		C

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
APR 28,88	APR 27,88	195.0		69.0	LG	3.48		4.17	******		0.1290	UG	9.45		2.16
APR 29,88	APR 28,88	77.0		30.0		******		4.92	******		0.0414		4.10		1.02
APR 30,88	APR 29,88	49.0	D	40.5		******		4.21	******		0.1030		5.60		0.37
MAY 10,88	MAY 9,88	982.0		20.0		4.10		6.50	******		0.0216		3.50		0.57
MAY 14,88	MAY 13,88	23.0		56.5		******	UG	7.39	******		0.0181		9.45		1.94
MAY 16,88	MAY 15,88	1890.0		29.0		3.87		4.53	******		0.0710		4.20		0.59
MAY 17,88	MAY 16,88	86.0		22.5		******	UG	7.10	******		0.0174		3.15		0.80
MAY 19,88	MAY 18,88	74.0		17.0		******	!IS	******	******	!IS	******		1.85		0.44
MAY 20,88	MAY 19,88	106.0		12.0		******	UG	6.84	******		0.0165		2.15		0.26
MAY 21,88	MAY 20,88	314.0		77.0		******		3.87	******		0.1770		6.25		1.65
MAY 22,88	MAY 21,88	219.0		82.0		******		4.00	******		0.1470		8.60		2.13
JUN 2,88	JUN 1,88	1041.0		17.0		3.40		4.80	******		0.0405		2.35		0.28
JUN 7,88	JUN 6,88	189.0		12.5		******		5.56	******		0.0208		2.60		0.27
JUN 23,88	JUN 22,88	******		******		******		******	******		******		******		******
JUN 29,88	JUN 28,88	19.0		12.5		******	UG	7.24	******		0.0126		1.00		0.30
JUL 11,88	JUL 10,88	491.0	>	100.0	LG	3.01		3.57	******		0.2840		11.20		1.35
JUL 17,88	JUL 16,88	2207.0	D	33.0		3.74	D	4.22	******	D	0.0814	D	3.75		0.43
JUL 23,88	JUL 22,88	84.0		57.5		******		4.55	******		0.0579	D	6.65		1.89
JUL 28,88	JUL 27,88	426.0		29.5		3.86		4.36	******		0.0691		3.95		0.63
JUL 31,88	JUL 30,88	425.0		36.0		3.67		4.20	******		0.0892		4.10		0.64
AUG 1,88	JUL 31,88	508.0		17.0		4.30		5.99	******		0.0241		2.65		0.65
AUG 3,88	AUG 2,88	629.0		45.0		3.85		4.28	******		0.0933		5.85		1.18
AUG 6,88	AUG 5,88	990.0		38.0		3.70		4.13	******		0.1020		3.75		0.38
AUG 10,88	AUG 9,88	5227.0		47.0		3.53		3.98	******		0.1320		4.85		0.42
AUG 15,88	AUG 14,88	2675.0		26.5		3.69		4.35	******		0.0720		3.15		0.45
AUG 18,88	AUG 17,88	1032.0		9.5		4.21		5.59	******		0.0343		1.40		0.38
AUG 24,88	AUG 23,88	829.0		24.0		4.02	D	5.07	******		0.0293		5.35		0.79
AUG 25,88	AUG 24,88	65.0		16.0		******		4.69	******		0.0451	D	2.75		0.30
AUG 28,88	AUG 27,88	55.0		78.5		******		3.79	******		0.1990		9.60		1.77
SEP 3,88	SEP 2,88	51.0	>	100.0		******		3.57	******		0.3150		13.60		1.78
SEP 4,88	SEP 3,88	3261.0		26.0		4.01		4.18	******		0.0890		2.75		0.30
SEP 5,88	SEP 4,88	1480.0		15.0	D	4.28		4.39	******		0.0628		2.00		0.16
SEP 6,88	SEP 5,88	79.0	LG	5.5		******		6.11	******		0.0200	LG	0.70	LG	0.09
SEP 13,88	SEP 12,88	128.0		50.5	D	3.43		3.91	******		0.1460		6.05		0.52
SEP 17,88	SEP 16,88	162.0		86.5		3.41		3.75	******		0.2470		10.45		1.24
SEP 18,88	SEP 17,88	256.0		54.0		3.79		4.12	******		0.1180		7.80		1.30
SEP 20,88	SEP 19,88	95.0		30.0		******		3.97	******		0.1570		6.95		0.39
SEP 23,88	SEP 22,88	1322.0		23.5	D	3.74		4.27	******		0.0767		2.40		0.36
SEP 28,88	SEP 27,88	104.0		40.5		3.91		3.83	******		0.1820		7.00		1.23
OCT 1,88	SEP 30,88	64.0		53.0		******		3.94	******		0.1450		8.05		1.63

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L
APR 28,88	APR 27,88	2.04	D	1.07		0.325	B	0.625	D	0.420		2.250		0.0676
APR 29,88	APR 28,88	0.36	D	0.90		0.055	B	0.525	D	0.505		1.540		0.0120
APR 30,88	APR 29,88	0.54		0.21		0.090		0.065		0.110		0.500		0.0617
MAY 10,88	MAY 9,88	0.84	D	0.45		0.165	D	0.290	B	0.240		0.775		0.0003
MAY 14,88	MAY 13,88	3.40		0.49		0.485	UG	0.365	UG	0.415	UG	2.475	UG	0.0000
MAY 16,88	MAY 15,88	0.56		0.20		0.115		0.080		0.050		0.775		0.0295
MAY 17,88	MAY 16,88	1.38		0.26		0.320		0.250		0.120		0.938	UG	0.0001
MAY 19,88	MAY 18,88	1.32		0.15		0.210		0.195		0.045		0.698	!IS	******
MAY 20,88	MAY 19,88	0.84	D	0.15		0.100		0.260		0.030		0.560	UG	0.0001
MAY 21,88	MAY 20,88	0.42		0.22		0.065		0.035	<T	0.020		0.994		0.1349
MAY 22,88	MAY 21,88	0.66		0.40		0.120		0.140		0.040		2.430		0.1000
JUN 2,88	JUN 1,88	0.34		0.13		0.055		0.075		0.045		0.402		0.0158
JUN 7,88	JUN 6,88	0.52		0.09		0.105		0.055	<T	0.020		0.530		0.0028
JUN 23,88	JUN 22,88	******		******		******		******		******		******		******
JUN 29,88	JUN 28,88	!IS ******		0.17	!IS	******	!IS	******	!IS	******		0.158	UG	0.0001
JUL 11,88	JUL 10,88	0.48		0.38		0.095		0.065		0.080		0.466		0.2692
JUL 17,88	JUL 16,88	0.26	D	0.20		0.060	D	0.050		0.115	D	0.422	D	0.0603
JUL 23,88	JUL 22,88	2.70	D	2.68		0.440	B	0.650	B	1.510		0.602		0.0282
JUL 28,88	JUL 27,88	0.72		0.16		0.145		0.045		0.025		0.586		0.0437
JUL 31,88	JUL 30,88	0.62		0.23		0.090		0.120		0.095		0.420		0.0631
AUG 1,88	JUL 31,88	0.76		0.13		0.115		0.065		0.040		0.702		0.0010
AUG 3,88	AUG 2,88	1.32		0.17		0.240		0.100		0.090		0.956		0.0525
AUG 6,88	AUG 5,88	0.12		0.06		0.030	<T	0.020	<T	0.020		0.276		0.0741
AUG 10,88	AUG 9,88	<T 0.08		0.08		0.025		0.030		0.025		0.340		0.1047
AUG 15,88	AUG 14,88	0.10		0.11		0.035		0.025		0.030		0.600		0.0447
AUG 18,88	AUG 17,88	0.46		0.15		0.075		0.040		0.080		0.380		0.0026
AUG 24,88	AUG 23,88	2.18	D	0.27		0.330		0.085		0.055		0.296	D	0.0085
AUG 25,88	AUG 24,88	0.42	D	0.12	D	0.085		0.090		0.090		0.350		0.0204
AUG 28,88	AUG 27,88	1.60		0.46		0.250		0.255		0.065		1.290		0.1622
SEP 3,88	SEP 2,88	!IS ******		0.78	!IS	******	!IS	******	!IS	******		1.080		0.2692
SEP 4,88	SEP 3,88	<W 0.02		0.06	<W	0.005	<T	0.015	<T	0.005		0.320		0.0661
SEP 5,88	SEP 4,88	<W 0.02	<W	0.01	<W	0.005	<T	0.010	<W	0.005		0.326		0.0407
SEP 6,88	SEP 5,88	0.20		0.24		0.035		0.155		0.150		0.246		0.0008
SEP 13,88	SEP 12,88	0.50		0.25		0.085	D	0.050		0.090		0.250		0.1230
SEP 17,88	SEP 16,88	0.78		0.31		0.120		0.065		0.065		0.856		0.1778
SEP 18,88	SEP 17,88	0.82		0.37		0.185		0.085		0.060		1.920		0.0759
SEP 20,88	SEP 19,88	0.82	D	0.17		0.160		0.175		0.125		0.500		0.1072
SEP 23,88	SEP 22,88	0.16	D	0.12	D	0.025	D	0.045		0.065		0.230		0.0537
SEP 28,88	SEP 27,88	1.32	D	0.35		0.225	D	0.140	D	0.100		1.060		0.1479
OCT 1,88	SEP 30,88	1.64		0.54		0.395		0.130	B	0.205		0.910		0.1148

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM SO2 PAGE : 7

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
OCT 2,88	OCT 1,88	800	800	2300	800	1	9.0	1	64870	2	1	99	B	C
OCT 3,88	OCT 2,88	800	800	****	****	1	3.6	1	64871	2	1	96		HM
OCT 5,88	OCT 4,88	800	800	500	730	1	1.0	1	64872	2	1	49		
OCT 6,88	OCT 5,88	800	800	1500	1700	1	2.0	1	64873	2	1	89		C
OCT 9,88	OCT 8,88	800	800	1600	****	1	1.6	1	64874	2	1	78	B	
OCT 11,88	OCT 10,88	800	800	1600	1800	1	17.4	1	64875	2	1	97		NJHM
OCT 12,88	OCT 11,88	800	800	2400	800	2	****	1	64876	2	1	****		JHM
OCT 13,88	OCT 12,88	800	800	800	1400	2	5.2	1	64877	2	1	210		NJ
OCT 16,88	OCT 15,88	800	800	1830	1900	1	4.8	1	64878	2	1	105		J
OCT 17,88	OCT 16,88	800	800	1900	2100	1	1.6	1	64879	2	1	105		J
OCT 18,88	OCT 17,88	800	800	2000	2400	1	23.6	1	64880	2	1	97		N
OCT 22,88	OCT 21,88	800	800	1200	1600	1	11.0	1	64881	2	1	101		
OCT 24,88	OCT 23,88	800	800	1900	2100	1	5.2	1	64882	2	1	90		J
OCT 25,88	OCT 24,88	800	800	1500	1800	1	4.2	1	64883	2	1	110	B	J
OCT 26,88	OCT 25,88	800	800	1200	1400	1	1.2	1	64884	2	1	61		
OCT 28,88	OCT 27,88	800	800	200	500	1	3.0	1	64885	2	1	52		J
NOV 1,88	OCT 31,88	800	930	200	500	1	1.4	1	64886	2	1	85		
NOV 4,88	NOV 3,88	800	800	2000	730	1	5.0	1	64887	2	1	****	FIE	
NOV 5,88	NOV 4,88	800	900	600	900	1	7.8	1	64888	2	1	101		
NOV 6,88	NOV 5,88	900	800	900	1600	1	12.8	1	64889	2	1	90	C	HCM
NOV 9,88	NOV 7,88	800	1400	600	1600	1	10.0	1	64890	2	1	120	Q	Z
NOV 10,88	NOV 9,88	1400	900	1900	500	1	10.0	1	64891	2	1	99		X
NOV 11,88	NOV 10,88	900	800	1000	1200	1	2.4	1	64892	2	1	79		X
NOV 13,88	NOV 12,88	800	930	2200	900	1	27.2	1	64893	2	1	102	BC	N
NOV 17,88	NOV 16,88	800	800	900	1000	1	3.2	1	64894	2	1	88	C	X
NOV 20,88	NOV 19,88	800	800	300	900	1	6.6	1	64895	2	1	97		
NOV 21,88	NOV 20,88	800	800	1200	1600	3	17.6	1	64896	2	1	96		N
NOV 22,88	NOV 21,88	800	800	800	1000	3	3.8	1	64897	2	1	****	EQ	
NOV 29,88	NOV 28,88	800	800	1800	2300	3	0.3	2	64898	2	1	****	E	N
DEC 1,88	NOV 30,88	800	800	2300	800	2	4.4	2	64900	2	1	39		NH
DEC 2,88	DEC 1,88	800	800	900	1400	2	1.4	2	64899	2	1	326		N
DEC 11,88	DEC 10,88	800	800	2000	700	2	2.0	2	64901	2	1	63		
DEC 13,88	DEC 12,88	800	800	2400	800	2	1.8	2	64902	2	1	65		
DEC 14,88	DEC 13,88	800	800	600	800	2	0.8	2	64903	2	1	40		
DEC 18,88	DEC 17,88	800	800	1900	2100	2	0.3	2	64904	2	1	77		
DEC 19,88	DEC 18,88	800	800	1900	2200	2	2.8	2	64905	2	1	78		J
DEC 21,88	DEC 20,88	800	800	1400	1900	1	1.0	2	64906	2	1	160	CD	NJ
DEC 23,88	DEC 22,88	800	800	2000	400	3	12.6	2	64907	2	1	105		J
DEC 25,88	DEC 24,88	800	900	1200	1800	3	6.0	2	64908	2	1	105		J
DEC 27,88	DEC 26,88	800	1100	100	1100	1	11.8	2	64909	2	1	96		N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02 PAGE : 8

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
OCT 2,88	OCT 1,88	575.0	20.0	4.14	4.29	******	0.0731	2.85	0.59
OCT 3,88	OCT 2,88	223.0	8.5	D 4.55	4.76	******	0.0398	1.65	<W 0.01
OCT 5,88	OCT 4,88	32.0	13.5	******	4.99	******	0.0368	2.05	0.90
OCT 6,88	OCT 5,88	115.0	10.5	4.49	4.53	******	0.0526	1.75	0.17
OCT 9,88	OCT 8,88	81.0	51.0	******	UG 7.38	******	0.0237	6.35	UG 4.49
OCT 11,88	OCT 10,88	1085.0	8.5	UG 5.45	UG 7.32	******	0.0240	2.30	0.38
OCT 12,88	OCT 11,88	2761.0	LG 1.5	4.80	6.61	******	0.0191	<T 0.20	<T 0.02
OCT 13,88	OCT 12,88	702.0	LG 2.5	4.81	5.54	******	0.0209	LG 0.25	<T 0.03
OCT 16,88	OCT 15,88	324.0	42.5	3.82	4.21	******	0.0969	5.20	0.81
OCT 17,88	OCT 16,88	108.0	23.5	4.31	4.95	******	0.0381	4.50	0.67
OCT 18,88	OCT 17,88	1479.0	19.0	4.11	4.43	******	0.0663	1.85	0.27
OCT 22,88	OCT 21,88	717.0	50.0	3.82	4.00	******	0.1270	2.85	1.12
OCT 24,88	OCT 23,88	301.0	31.0	3.68	4.22	******	0.0854	2.50	0.51
OCT 25,88	OCT 24,88	297.0	19.0	3.94	4.49	******	0.0570	2.35	0.46
OCT 26,88	OCT 25,88	47.0	42.5	******	4.12	******	0.1050	5.95	0.55
OCT 28,88	OCT 27,88	101.0	71.0	3.35	3.77	******	0.2020	5.20	1.60
NOV 1,88	OCT 31,88	77.0	39.0	******	4.32	******	0.0767	4.70	1.72
NOV 4,88	NOV 3,88	******	******	******	******	******	******	******	******
NOV 5,88	NOV 4,88	507.0	25.0	4.12	4.32	******	0.0782	2.40	0.45
NOV 6,88	NOV 5,88	744.0	9.0	4.54	4.54	******	0.0530	1.10	0.17
NOV 9,88	NOV 7,88	773.0	23.0	******	4.35	******	0.0851	2.10	0.45
NOV 10,88	NOV 9,88	636.0	******	******	******	******	******	******	******
NOV 11,88	NOV 10,88	122.0	******	******	******	******	******	******	******
NOV 13,88	NOV 12,88	1781.0	******	4.19	******	******	******	******	******
NOV 17,88	NOV 16,88	181.0	******	******	******	******	******	******	******
NOV 20,88	NOV 19,88	411.0	******	4.15	******	******	******	******	******
NOV 21,88	NOV 20,88	1094.0	******	4.36	******	******	******	******	******
NOV 22,88	NOV 21,88	******	******	******	******	******	******	******	******
NOV 29,88	NOV 28,88	******	******	******	******	******	******	******	******
DEC 1,88	NOV 30,88	112.0	!IR ******	B 5.25	5.51	******	0.0199	1.30	0.19
DEC 2,88	DEC 1,88	293.0	23.0	4.49	D 4.66	******	0.0457	3.00	0.95
DEC 11,88	DEC 10,88	82.0	21.0	******	UG 7.42	******	0.0109	!IR ******	0.30
DEC 13,88	DEC 12,88	76.0	19.0	******	4.56	******	0.0474	LG 0.50	1.14
DEC 14,88	DEC 13,88	21.0	!IS ******	******	4.65	******	0.0442	0.70	0.59
DEC 18,88	DEC 17,88	15.0	!IS ******	******	UG 7.51	******	0.0111	0.55	0.27
DEC 19,88	DEC 18,88	141.0	!IS ******	4.34	5.34	******	0.0241	1.05	0.70
DEC 21,88	DEC 20,88	103.0	35.5	5.10	6.28	******	0.0209	7.75	1.09
DEC 23,88	DEC 22,88	853.0	29.0	LG 3.25	4.20	******	0.0919	!CR ******	!CR ******
DEC 25,88	DEC 24,88	404.0	12.0	3.63	4.66	******	0.0408	!CR ******	!CR ******
DEC 27,88	DEC 26,88	733.0	35.0	******	4.04	******	0.1180	3.55	0.16

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02 PAGE : 9

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
OCT 2,88	OCT 1,88	0.14	0.13	0.030	0.030	0.055	0.660	0.0513
OCT 3,88	OCT 2,88	D 0.16	<W 0.01	D 0.035	0.040	0.030	0.190	0.0174
OCT 5,88	OCT 4,88	!IS ******	0.28	!IS ******	!IS ******	!IS ******	0.670	0.0102
OCT 6,88	OCT 5,88	0.10	0.40	<T 0.025	0.170	B 0.235	0.230	0.0295
OCT 9,88	OCT 8,88	UG 5.12	0.82	UG 0.965	UG 0.430	0.095	UG 2.520	UG 0.0000
OCT 11,88	OCT 10,88	0.50	0.09	0.095	0.055	<T 0.025	0.740	UG 0.0000
OCT 12,88	OCT 11,88	<T 0.04	0.06	<T 0.010	0.045	0.035	LG 0.080	0.0002
OCT 13,88	OCT 12,88	<T 0.02	0.09	<T 0.010	<T 0.010	0.030	LG 0.060	0.0029
OCT 16,88	OCT 15,88	0.78	0.32	0.100	0.130	UG 0.215	0.760	0.0617
OCT 17,88	OCT 16,88	1.22	0.27	0.235	B 0.475	0.080	0.610	0.0112
OCT 18,88	OCT 17,88	<T 0.08	0.10	<T 0.010	0.030	0.035	0.196	0.0372
OCT 22,88	OCT 21,88	0.12	D 0.28	<T 0.020	0.040	<T 0.025	0.436	0.1000
OCT 24,88	OCT 23,88	<T 0.08	0.08	<T 0.015	0.030	<T 0.015	0.286	0.0603
OCT 25,88	OCT 24,88	0.34	D 0.33	0.105	D 0.160	D 0.095	0.456	0.0324
OCT 26,88	OCT 25,88	0.52	0.83	0.100	0.080	0.100	1.200	0.0759
OCT 28,88	OCT 27,88	0.70	0.35	0.090	0.070	0.060	0.620	0.1698
NOV 1,88	OCT 31,88	2.14	0.22	0.350	0.125	D 0.100	0.706	0.0479
NOV 4,88	NOV 3,88	******	******	******	******	******	******	******
NOV 5,88	NOV 4,88	0.20	0.35	0.035	0.045	0.175	0.200	0.0479
NOV 6,88	NOV 5,88	<T 0.08	0.13	<T 0.020	D 0.060	0.055	0.146	0.0288
NOV 9,88	NOV 7,88	0.18	0.12	<T 0.025	<T 0.020	<T 0.015	0.226	0.0447
NOV 10,88	NOV 9,88	******	******	******	******	******	******	******
NOV 11,88	NOV 10,88	******	******	******	******	******	******	******
NOV 13,88	NOV 12,88	******	******	******	******	******	******	******
NOV 17,88	NOV 16,88	******	******	******	******	******	******	******
NOV 20,88	NOV 19,88	******	******	******	******	******	******	******
NOV 21,88	NOV 20,88	******	******	******	******	******	******	******
NOV 22,88	NOV 21,88	******	******	******	******	******	******	******
NOV 29,88	NOV 28,88	******	******	******	******	******	******	******
DEC 1,88	NOV 30,88	0.24	<W 0.01	0.040	0.025	0.050	0.400	0.0031
DEC 2,88	DEC 1,88	0.64	0.35	0.115	0.055	0.045	1.010	D 0.0219
DEC 11,88	DEC 10,88	2.94	<W 0.01	0.545	0.040	0.085	0.220	UG 0.0000
DEC 13,88	DEC 12,88	0.96	0.12	0.150	0.085	0.140	LG 0.046	0.0275
DEC 14,88	DEC 13,88	!IS ******	0.40	!IS ******	!IS ******	!IS ******	0.200	0.0224
DEC 18,88	DEC 17,88	!IS ******	0.30	!IS ******	!IS ******	!IS ******	0.116	UG 0.0000
DEC 19,88	DEC 18,88	0.96	0.40	0.140	D 0.035	0.145	0.176	0.0046
DEC 21,88	DEC 20,88	2.40	1.33	0.465	0.235	UG 0.790	1.290	0.0005
DEC 23,88	DEC 22,88	0.14	!CR ******	0.030	0.030	0.050	0.256	0.0631
DEC 25,88	DEC 24,88	0.34	!CR ******	0.030	0.035	0.025	0.090	0.0219
DEC 27,88	DEC 26,88	0.16	0.30	0.030	<T 0.020	0.135	0.140	0.0912

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02 PAGE : 10

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
DEC 28,86	DEC 27,86	1100	1000	600	800	1	9.8	2	64910	2	1	101		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
DEC 28,88	DEC 27,88	640.0	24.0	******	4.26	******	0.0753	1.80	0.37

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02 PAGE : 12

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
DEC 28,88	DEC 27,88	<T 0.08	0.18	<T 0.020	0.025	0.050	0.180	0.0550

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 4,88	JAN 3,88	800	800	****	****	3	0.2	2	61510	2	1	****	E	N
JAN 14,88	JAN 13,88	800	800	1900	2400	2	0.8	2	61511	2	1	38		NH
JAN 17,88	JAN 16,88	800	800	****	****	1	2.6	2	61513	2	1	100		
JAN 18,88	JAN 17,88	800	800	1500	2400	1	8.8	2	61512	2	1	104		
JAN 19,88	JAN 18,88	800	800	****	****	1	0.2	2	61514	2	1	140		N
JAN 20,88	JAN 19,88	800	800	2200	100	1	2.0	2	61515	2	1	77		
JAN 22,88	JAN 21,88	800	800	900	1100	2	0.8	2	61516	2	1	****	E	N
JAN 24,88	JAN 23,88	800	1200	1600	2300	3	2.0	2	61517	2	1	84		
JAN 26,88	JAN 25,88	800	800	500	900	2	2.6	2	61518	2	1	15		N
FEB 1,88	JAN 31,88	800	800	1300	2100	1	5.8	2	61519	2	1	103		
FEB 2,88	FEB 1,88	800	800	****	****	3	7.6	2	61520	2	1	63		
FEB 4,88	FEB 3,88	800	800	****	****	2	8.0	2	61521	2	1	69		
FEB 5,88	FEB 4,88	800	800	****	****	2	0.8	2	61522	2	1	33		N
FEB 9,88	FEB 8,88	800	800	****	****	2	1.6	2	61523	2	1	59		
FEB 12,88	FEB 11,88	800	800	****	****	2	11.2	2	61524	2	1	33		N
FEB 15,88	FEB 14,88	800	800	****	****	1	1.2	2	61525	2	1	127		N
FEB 17,88	FEB 16,88	800	800	2400	600	2	0.6	2	61526	2	1	62		
FEB 20,88	FEB 19,88	800	800	1100	1900	3	10.2	2	61527	2	1	100		
FEB 21,88	FEB 20,88	800	800	1500	1800	2	0.8	2	61528	2	1	68		
FEB 27,88	FEB 26,88	800	800	****	****	2	0.1	2	61529	2	1	****	E	N
FEB 29,88	FEB 28,88	800	800	****	****	2	0.2	2	61530	2	1	****	E	N
MAR 1,88	FEB 29,88	800	800	****	****	2	1.0	2	61531	2	1	76		H
MAR 9,88	MAR 8,88	800	800	****	****	1	0.2	2	61532	2	1	499		N
MAR 13,88	MAR 12,88	800	800	****	****	1	7.8	2	61533	2	1	80		
MAR 14,88	MAR 13,88	800	800	****	****	2	0.6	2	61534	2	1	20		XN
MAR 18,88	MAR 17,88	800	800	****	****	3	1.2	2	61535	2	1	46		N
MAR 19,88	MAR 18,88	800	800	****	****	2	0.2	2	61536	2	1	132		N
MAR 20,88	MAR 19,88	800	800	****	****	2	1.6	2	61537	2	1	38		N
MAR 23,88	MAR 22,88	800	800	****	****	1	1.6	2	61541	2	1	121	C	N
MAR 26,88	MAR 25,88	800	800	815	1500	1	16.0	2	61542	2	1	102		H
MAR 28,88	MAR 27,88	800	800	****	****	1	1.3	2	61543	2	1	153	C	NJHM
MAR 29,88	MAR 28,88	800	800	****	****	1	0.2	2	61544	2	1	257		N
MAR 30,88	MAR 29,88	800	800	1700	1900	1	0.6	1	61545	2	1	72		
APR 2,88	APR 1,88	800	800	****	****	1	1.6	1	61546	2	1	78		
APR 3,88	APR 2,88	800	1000	700	1000	1	3.2	1	61547	2	1	90		
APR 4,88	APR 3,88	1000	800	****	****	1	5.2	1	61548	2	1	88		
APR 7,88	APR 6,88	800	800	****	****	1	9.4	1	61549	2	1	91		
APR 15,88	APR 14,88	800	800	****	****	1	4.0	1	61550	2	1	154		NJ
APR 18,88	APR 17,88	800	800	****	****	3	11.4	1	61551	2	1	54		J
APR 19,88	APR 18,88	800	800	****	****	1	1.0	1	61552	2	1	23		N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01 PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 4,88	JAN 3,88	******	******	******	******	******	******	******	******
JAN 14,88	JAN 13,88	20.0	28.5	******	5.57	******	0.0300	4.85	1.03
JAN 17,88	JAN 16,88	168.0	23.0	4.14	4.33	******	0.0704	D 2.30	0.47
JAN 18,88	JAN 17,88	591.0	27.0	******	4.18	******	0.0873	2.10	0.44
JAN 19,88	JAN 18,88	18.0	!IS ******	******	!IS ******	******	!IS ******	!IS ******	!IS ******
JAN 20,88	JAN 19,88	99.0	46.0	3.73	D 3.97	******	D 0.1440	3.75	1.21
JAN 22,88	JAN 21,88	******	******	******	******	******	******	******	******
JAN 24,88	JAN 23,88	108.0	44.5	3.73	4.03	******	0.1350	3.50	1.36
JAN 26,88	JAN 25,88	26.0	19.5	******	4.59	******	0.0482	1.05	0.76
FEB 1,88	JAN 31,88	383.0	29.5	4.13	4.37	******	0.0691	2.85	0.38
FEB 2,88	FEB 1,88	307.0	20.0	4.42	4.65	******	0.0427	2.40	0.34
FEB 4,88	FEB 3,88	354.0	12.0	4.49	4.71	******	0.0366	LG 0.45	0.29
FEB 5,88	FEB 4,88	17.0	13.0	******	4.78	******	0.0433	<W 0.05	0.68
FEB 9,88	FEB 8,88	61.0	40.5	******	4.14	******	0.1120	0.70	1.53
FEB 12,88	FEB 11,88	241.0	49.0	3.99	4.05	******	0.1360	2.70	1.34
FEB 15,88	FEB 14,88	98.0	58.0	******	4.05	******	0.1390	5.80	1.21
FEB 17,88	FEB 16,88	24.0	D 17.0	******	6.05	******	0.0200	D 1.45	0.86
FEB 20,88	FEB 19,88	660.0	44.0	3.92	4.13	******	0.1060	2.80	0.89
FEB 21,88	FEB 20,88	35.0	!IS ******	******	4.25	******	D 0.0850	!IS ******	!IS ******
FEB 27,88	FEB 26,88	******	******	******	******	******	******	******	******
FEB 29,88	FEB 28,88	******	******	******	******	******	******	******	******
MAR 1,88	FEB 29,88	49.0	29.0	******	UG 6.92	******	0.0173	3.60	1.41
MAR 9,88	MAR 8,88	64.0	59.0	******	4.33	******	0.0818	7.00	1.95
MAR 13,88	MAR 12,88	404.0	33.5	4.20	4.32	******	0.0782	3.15	0.49
MAR 14,88	MAR 13,88	8.0	******	******	******	******	******	******	******
MAR 18,88	MAR 17,88	36.0	49.5	******	4.17	******	0.0978	3.00	2.00
MAR 19,88	MAR 18,88	17.0	!IS ******	******	4.58	******	0.0551	!IS ******	!IS ******
MAR 20,88	MAR 19,88	40.0	D 18.5	******	4.69	******	0.0431	D 1.20	0.54
MAR 23,88	MAR 22,88	125.0	51.5	UG 6.73	UG 7.16	******	0.0212	8.10	1.83
MAR 26,88	MAR 25,88	1054.0	D 25.5	4.33	4.42	******	D 0.0632	D 2.90	0.44
MAR 28,88	MAR 27,88	128.0	23.5	UG 5.71	UG 7.72	******	0.0178	4.40	0.73
MAR 29,88	MAR 28,88	33.0	!IS ******	******	4.28	******	0.0939	!IS ******	!IS ******
MAR 30,88	MAR 29,88	28.0	53.0	******	4.25	******	0.0958	UG 9.05	1.32
APR 2,88	APR 1,88	81.0	72.5	******	3.87	******	0.1730	6.25	1.51
APR 3,88	APR 2,88	186.0	46.5	D 3.89	D 4.10	******	0.1090	5.15	0.79
APR 4,88	APR 3,88	295.0	17.5	4.19	4.55	******	0.0475	1.55	0.26
APR 7,88	APR 6,88	554.0	70.5	3.68	3.89	******	0.1740	6.35	1.39
APR 15,88	APR 14,88	397.0	52.0	UG 6.54	UG 7.30	******	0.0145	7.10	2.16
APR 18,88	APR 17,88	398.0	40.0	UG 6.46	UG 7.56	******	D 0.0172	6.30	1.11
APR 19,88	APR 18,88	15.0	21.0	******	UG 7.19	******	0.0175	1.95	0.62

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 4,88	JAN 3,88	******	******	******	******	******	******	******
JAN 14,88	JAN 13,88	1.80	0.74	0.325	0.160	0.360	0.750	0.0027
JAN 17,88	JAN 16,88	0.38	0.25	0.060	D 0.040	0.110	0.220	0.0468
JAN 18,88	JAN 17,88	0.14	0.17	<T 0.020	<T 0.020	0.050 D	0.110	0.0661
JAN 19,88	JAN 18,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	0.700	!IS ******
JAN 20,88	JAN 19,88	0.47	0.29	0.055	0.055	0.090	0.360	D 0.1072
JAN 22,88	JAN 21,88	******	******	******	******	******	******	******
JAN 24,88	JAN 23,88	0.50	0.43	0.050	0.030	0.105	0.750	0.0933
JAN 26,88	JAN 25,88	!IS ******	0.39	!IS ******	!IS ******	!IS ******	0.440	0.0257
FEB 1,88	JAN 31,88	0.18	0.56	0.055	<T 0.020	0.320	0.380	0.0427
FEB 2,88	FEB 1,88	0.12	0.20	0.030	0.105	0.115	0.510	0.0224
FEB 4,88	FEB 3,88	<T 0.06	0.22	<T 0.020	<W 0.005	0.065 LG	0.040	0.0195
FEB 5,88	FEB 4,88	!IS ******	0.28	!IS ******	!IS ******	!IS ******	0.390	0.0166
FEB 9,88	FEB 8,88	0.42	0.71	0.060	0.120	0.260	0.150	0.0724
FEB 12,88	FEB 11,88	0.16	0.40	<T 0.025	<T 0.020	0.095	0.650	0.0891
FEB 15,88	FEB 14,88	0.94	0.96	0.100	0.190	0.545	0.630	0.0891
FEB 17,88	FEB 16,88	!IS ******	0.48	!IS ******	!IS ******	!IS ******	0.510	0.0009
FEB 20,88	FEB 19,88	0.18	0.24	0.030	0.040	0.055	0.420	0.0741
FEB 21,88	FEB 20,88	0.16	!IS ******	0.035	<T 0.015	0.075	0.800	0.0562
FEB 27,88	FEB 26,88	******	******	******	******	******	******	******
FEB 29,88	FEB 28,88	******	******	******	******	******	******	******
MAR 1,88	FEB 29,88	1.38	0.45	0.240	<T 0.020	0.165	1.380	UG 0.0001
MAR 9,88	MAR 8,88	2.04	0.66	0.255	0.155	0.410	1.620	0.0468
MAR 13,88	MAR 12,88	0.40	0.29	0.050	0.055	0.130	0.380	0.0479
MAR 14,88	MAR 13,88	******	******	******	******	******	******	******
MAR 18,88	MAR 17,88	!IS ******	1.38	!IS ******	!IS ******	!IS ******	1.160	0.0676
MAR 19,88	MAR 18,88	0.14	!IS ******	0.030	0.120	0.110	0.800	0.0263
MAR 20,88	MAR 19,88	!IS ******	0.40	!IS ******	!IS ******	!IS ******	0.400	0.0204
MAR 23,88	MAR 22,88	2.64	0.99	0.470	0.250	0.665 UG	2.450	UG 0.0001
MAR 26,88	MAR 25,88	0.52	0.18	0.070	0.035	0.115	0.480	0.0380
MAR 28,88	MAR 27,88	0.96	0.25	0.200	0.325	0.140	1.200	UG 0.0000
MAR 29,88	MAR 28,88	1.58	!IS ******	0.175 D	0.240 D	0.530	1.630	0.0525
MAR 30,88	MAR 29,88	1.96	0.46	0.295	0.205	0.445	1.130	0.0562
APR 2,88	APR 1,88	0.72	0.41	0.110	0.095	0.125	0.610	0.1349
APR 3,88	APR 2,88	0.68	0.51	0.085	0.090	0.345	0.440	D 0.0794
APR 4,88	APR 3,88	0.16	0.07	0.025	<T 0.025	0.035	0.170	0.0282
APR 7,88	APR 6,88	1.06	0.29	0.115	0.100	0.160	0.870	0.1288
APR 15,88	APR 14,88	2.28	0.47	0.400	0.195	0.255 UG	3.250	UG 0.0001
APR 18,88	APR 17,88	1.86	0.22	0.405	0.095	0.130 UG	2.500	UG 0.0000
APR 19,88	APR 18,88	!IS ******	0.51	!IS ******	!IS ******	!IS ******	1.030	UG 0.0001

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01 PAGE : 4

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
APR 21,88	APR 20,88	800	800	****	****	1	4.2	1	61553	2	1	84		J
APR 24,88	APR 23,88	800	800	****	****	1	6.6	1	61554	2	1	89		J
APR 27,88	APR 26,88	800	800	****	****	1	2.0	1	61555	2	1	77		JH
APR 28,88	APR 27,88	800	800	****	****	1	2.0	1	61556	2	1	86		J
APR 29,88	APR 28,88	800	800	****	****	1	0.2	1	61557	2	1	****	E	N
MAY 3,88	MAY 2,88	800	800	****	****	1	1.2	1	61558	2	1	65		
MAY 9,88	MAY 8,88	800	800	****	****	1	1.0	1	61559	2	1	93		
MAY 10,88	MAY 9,88	800	800	****	****	1	12.8	1	61560	2	1	50		J
MAY 16,88	MAY 15,88	800	800	****	****	1	27.3	1	61561	2	1	92		N
MAY 17,88	MAY 16,88	800	800	****	****	1	1.4	1	61564	2	1	60		
MAY 19,88	MAY 18,88	800	800	****	****	1	1.2	1	61565	2	1	106		HCM
MAY 20,88	MAY 19,88	800	800	****	****	1	2.4	1	61566	2	1	85		
MAY 21,88	MAY 20,88	800	800	****	****	1	4.2	1	61567	2	1	97		
MAY 22,88	MAY 21,88	800	800	****	****	1	1.0	1	61568	2	1	65		
MAY 24,88	MAY 23,88	800	800	****	****	1	0.1	1	61569	2	1	****	E	N
MAY 27,88	MAY 26,88	800	800	****	****	1	2.0	1	61570	2	1	95		H
JUN 2,88	JUN 1,88	800	800	2000	****	1	9.6	1	61571	2	1	96		H
JUN 3,88	JUN 2,88	800	800	****	****	1	1.0	1	61572	2	1	40		N
JUN 9,88	JUN 8,88	800	800	1830	2030	1	2.4	1	61573	2	1	90		
JUN 23,88	JUN 22,88	800	800	2100	****	1	0.6	1	61575	2	1	93		
JUN 29,88	JUN 28,88	800	800	2000	****	1	1.0	1	61576	2	1	87	AC	
JUL 10,88	JUL 9,88	800	800	****	****	1	17.0	1	61578	2	1	99		J
JUL 17,88	JUL 16,88	800	800	1800	2300	1	39.6	1	61582	2	1	70		
JUL 19,88	JUL 18,88	800	800	****	****	1	3.0	1	61585	2	1	92		C
JUL 21,88	JUL 20,88	800	800	****	****	1	0.2	*	64837	2	1	****	E	N
JUL 23,88	JUL 22,88	800	1200	630	1100	1	4.4	1	64838	2	1	100		J
JUL 28,88	JUL 27,88	800	800	****	****	1	4.2	1	61587	2	1	85		JH
JUL 31,88	JUL 30,88	800	800	****	****	1	4.8	1	61588	2	1	90		
AUG 1,88	JUL 31,88	800	1200	****	****	1	3.4	1	61589	2	1	87		JH
AUG 6,88	AUG 5,88	800	800	****	****	1	14.6	1	61590	2	1	103		J
AUG 10,88	AUG 9,88	800	800	****	****	1	7.0	1	61593	2	1	U 59	Q	
AUG 12,88	AUG 11,88	800	800	****	****	1	7.0	1	61594	2	1	88		J
AUG 18,88	AUG 17,88	800	800	2000	2200	1	2.3	1	61595	2	1	78		
AUG 24,88	AUG 23,88	800	800	****	****	1	7.2	1	61596	2	1	99		J
AUG 25,88	AUG 24,88	800	800	****	****	1	2.2	1	61597	2	1	85		J
AUG 28,88	AUG 27,88	800	800	****	****	1	1.6	1	61598	2	1	82		
SEP 3,88	SEP 2,88	800	800	2200	****	1	1.6	1	61599	2	1	108		J
SEP 4,88	SEP 3,88	800	800	2300	530	1	18.6	1	61600	2	1	100		
SEP 6,88	SEP 5,88	800	800	1500	****	1	20.2	1	61603	2	1	107		
SEP 7,88	SEP 6,88	800	800	****	****	1	0.4	1	61605	2	1	****	E	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
APR 21,88	APR 20,88	128.0		58.0	UG	6.61	UG	7.62	******		0.0121		7.50		1.24
APR 24,88	APR 23,88	379.0		54.5	LG	3.24		4.07	******		0.1390		6.55		0.82
APR 27,88	APR 26,88	99.0		30.5	UG	5.96	UG	7.03	******		0.0187		5.20		1.01
APR 28,88	APR 27,88	111.0		66.5	LG	3.36		4.13	******		0.1310		7.55		1.95
APR 29,88	APR 28,88	******		******		******		******	******		******		******		******
MAY 3,88	MAY 2,88	50.0		39.0		******		4.58	******		0.0564		7.50		0.64
MAY 9,88	MAY 8,88	60.0		54.5		******	UG	7.23	******		0.0220		9.40		1.23
MAY 10,88	MAY 9,88	416.0		15.5		4.43		4.95	******		0.0352		3.00		0.46
MAY 16,88	MAY 15,88	1617.0	D	52.0		3.84		4.20	******	D	0.1060		6.60		1.19
MAY 17,88	MAY 16,88	54.0		33.0		******	UG	7.43	******		0.0171		3.35		1.01
MAY 19,88	MAY 18,88	82.0		16.0		******	UG	7.53	******		0.0127		2.00		0.48
MAY 20,88	MAY 19,88	131.0		8.0		******		5.00	******		0.0293		1.35		0.27
MAY 21,88	MAY 20,88	263.0		86.5		******		3.81	******		0.1970		6.75		1.69
MAY 22,88	MAY 21,88	42.0	>	100.0		******		3.89	******		0.1820		11.70	UG	2.82
MAY 24,88	MAY 23,88	******		******		******		******	******		******		******		******
MAY 27,88	MAY 26,88	122.0		30.0		******	UG	7.01	******		0.0165		4.75		1.28
JUN 2,88	JUN 1,88	592.0		17.5		******		4.77	******		0.0413		3.05		0.39
JUN 3,88	JUN 2,88	26.0		37.5		******	UG	7.71	******		0.0106		2.15		1.22
JUN 9,88	JUN 8,88	139.0		16.0		******	UG	7.36	******		0.0156		2.45		0.22
JUN 23,88	JUN 22,88	36.0		84.0		******	UG	7.52	******		0.0195		10.10	UG	2.71
JUN 29,88	JUN 28,88	56.0		45.0		******	UG	7.58	******		0.0163		4.15		0.65
JUL 10,88	JUL 9,88	1084.0		83.5	LG	3.11		3.75	******		0.2050		8.55		0.91
JUL 17,88	JUL 16,88	1800.0		24.5		4.03		4.41	******		0.0572		2.55		0.36
JUL 19,88	JUL 18,88	178.0	>	100.0		3.38		3.54	******		0.2930	UG	17.30		1.40
JUL 21,88	JUL 20,88	******		******		******		******	******		******		******		******
JUL 23,88	JUL 22,88	283.0		40.0		3.55		4.07	******		0.1000		2.80		0.82
JUL 28,88	JUL 27,88	230.0		21.0		4.80		5.34	******		0.0280		3.95		0.89
JUL 31,88	JUL 30,88	279.0		33.0		3.90		4.16	******		0.0890		4.45		0.56
AUG 1,88	JUL 31,88	191.0		27.0		4.33		5.21	******		0.0302		4.40		0.96
AUG 6,88	AUG 5,88	972.0		49.0	D	3.38		3.99	******		0.1370		5.05		0.50
AUG 10,88	AUG 9,88	268.0	>	100.0		3.32	D	3.63	******	D	0.2660		11.50		1.27
AUG 12,88	AUG 11,88	397.0		60.0		3.65		4.00	******		0.1360		6.20		1.35
AUG 18,88	AUG 17,88	115.0		22.0	UG	4.98		5.45	******		0.0290		3.55		0.78
AUG 24,88	AUG 23,88	458.0		48.0		3.52		3.92	******		0.1350		5.05		0.66
AUG 25,88	AUG 24,88	120.0		15.5		4.00		4.55	******		0.0518		2.10		0.28
AUG 28,88	AUG 27,88	85.0		77.0		******		3.80	******		0.1960		9.00		1.64
SEP 3,88	SEP 2,88	111.0		86.0		3.98		3.79	******		0.2160		10.45		1.39
SEP 4,88	SEP 3,88	1199.0		32.0		3.97		4.15	******		0.1000		2.90		0.31
SEP 6,88	SEP 5,88	1388.0		21.5		4.14		4.30	******		0.0722		2.60		0.23
SEP 7,88	SEP 6,88	******		******		******		******	******		******		******		******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01 PAGE : 6

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
APR 21,88	APR 20,88	UG 4.36	0.53	UG 0.930	0.200	0.190	2.020	UG 0.0000
APR 24,88	APR 23,88	1.02	0.24	0.140	0.110	0.095	0.740	0.0851
APR 27,88	APR 26,88	0.84	0.14	0.165	0.060	0.110	> 2.000	UG 0.0001
APR 28,88	APR 27,88	1.80	0.48	0.275	0.155	0.090	1.640	0.0741
APR 29,88	APR 28,88	******	******	******	******	******	******	******
MAY 3,88	MAY 2,88	0.36	0.34	0.065	0.040	0.150	1.925	0.0263
MAY 9,88	MAY 8,88	2.36	UG 1.50	0.475	UG 0.885	UG 0.875	2.375	UG 0.0001
MAY 10,88	MAY 9,88	0.44	0.15	0.075	0.085	0.060	0.725	0.0112
MAY 16,88	MAY 15,88	1.22	D 0.27	0.135	0.070	0.075	1.100	0.0631
MAY 17,88	MAY 16,88	2.28	0.30	0.450	0.235	UG 0.210	1.275	UG 0.0000
MAY 19,88	MAY 18,88	1.26	0.19	0.175	0.120	D 0.115	0.270	UG 0.0000
MAY 20,88	MAY 19,88	0.24	0.14	0.030	0.065	0.085	0.306	0.0100
MAY 21,88	MAY 20,88	0.46	0.26	0.070	0.045	0.035	0.852	0.1549
MAY 22,88	MAY 21,88	!IS ******	0.56	!IS ******	!IS ******	!IS ******	2.150	0.1288
MAY 24,88	MAY 23,88	******	******	******	******	******	******	******
MAY 27,88	MAY 26,88	1.20	0.30	0.280	0.115	0.110	1.810	UG 0.0001
JUN 2,88	JUN 1,88	0.52	0.18	0.110	0.145	0.100	0.604	0.0170
JUN 3,88	JUN 2,88	!IS ******	0.59	!IS ******	!IS ******	!IS ******	1.110	UG 0.0000
JUN 9,88	JUN 8,88	0.80	0.15	0.210	0.700	0.060	D 0.526	UG 0.0000
JUN 23,88	JUN 22,88	!IS ******	0.69	!IS ******	!IS ******	!IS ******	!IS ******	UG 0.0000
JUN 29,88	JUN 28,88	!IS ******	0.37	!IS ******	!IS ******	!IS ******	1.020	UG 0.0000
JUL 10,88	JUL 9,88	0.48	0.29	0.090	0.180	0.075	0.520	0.1778
JUL 17,88	JUL 16,88	0.26	0.13	0.065	0.025	0.075	0.334	0.0389
JUL 19,88	JUL 18,88	0.52	0.26	0.095	0.065	0.045	1.710	0.2884
JUL 21,88	JUL 20,88	******	******	******	******	******	******	******
JUL 23,88	JUL 22,88	0.24	0.15	0.040	<T 0.020	<T 0.010	0.218	0.0851
JUL 28,88	JUL 27,88	1.44	0.20	0.255	0.070	0.045	0.592	0.0046
JUL 31,88	JUL 30,88	0.44	0.14	0.085	0.055	0.040	0.560	0.0692
AUG 1,88	JUL 31,88	1.24	0.20	D 0.195	0.070	0.060	1.000	0.0062
AUG 6,88	AUG 5,88	0.18	0.08	0.035	<T 0.015	<T 0.015	0.406	0.1023
AUG 10,88	AUG 9,88	0.52	0.34	0.140	0.055	0.050	0.906	D 0.2344
AUG 12,88	AUG 11,88	0.98	0.26	0.180	0.050	0.050	0.906	0.1000
AUG 18,88	AUG 17,88	0.90	0.25	0.150	0.135	0.155	0.956	0.0035
AUG 24,88	AUG 23,88	0.20	0.14	0.045	<T 0.020	<T 0.010	0.296	0.1202
AUG 25,88	AUG 24,88	0.18	0.08	0.045	0.080	0.055	0.296	0.0282
AUG 28,88	AUG 27,88	1.12	0.41	0.165	0.260	0.040	1.450	0.1585
SEP 3,88	SEP 2,88	D 1.14	0.36	D 0.190	D 0.095	0.045	0.926	0.1622
SEP 4,88	SEP 3,88	<T 0.02	<W 0.01	<W 0.005	<T 0.015	<T 0.010	0.360	0.0708
SEP 6,88	SEP 5,88	<W 0.02	0.04	<T 0.005	<T 0.015	<T 0.005	0.376	0.0501
SEP 7,88	SEP 6,88	******	******	******	******	******	******	******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
SEP 13,88	SEP 12,88	800	800	1400	1500	1	3.0	1	61606	2	1	110		J
SEP 17,88	SEP 16,88	800	800	2200	2300	1	2.4	1	61607	2	1	85		
SEP 19,88	SEP 18,88	800	800	****	****	1	1.0	1	61608	2	1	74		
SEP 20,88	SEP 19,88	800	800	2200	2400	1	1.2	1	61609	2	1	102		
SEP 25,88	SEP 22,88	800	800	2100	2300	1	27.0	1	61610	2	1	107		NJY3
SEP 28,88	SEP 27,88	800	800	****	****	1	0.3	1	61611	2	1	****	E	N
OCT 2,88	OCT 1,88	800	1000	1900	2300	1	9.2	1	61612	2	1	101		C
OCT 3,88	OCT 2,88	1000	800	****	****	1	4.2	1	61613	2	1	87		CM
OCT 6,88	OCT 5,88	800	800	800	1200	1	8.2	1	61614	2	1	97		HM
OCT 10,88	OCT 9,88	800	1000	****	****	1	1.8	1	61615	2	1	72		H
OCT 11,88	OCT 10,88	1000	800	****	****	1	11.2	1	61616	2	1	96		JHCM
OCT 12,88	OCT 11,88	800	800	2300	800	3	6.4	1	61617	2	1	87		JHM
OCT 13,88	OCT 12,88	800	800	800	1200	3	12.2	1	61618	2	1	107		C
OCT 16,88	OCT 15,88	800	800	1900	1930	1	2.2	1	61619	2	1	78		
OCT 17,88	OCT 16,88	800	800	200	****	1	2.0	1	61620	2	1	76		
OCT 18,88	OCT 17,88	800	800	2000	100	1	40.2	1	61621	2	1	48		NHM
OCT 20,88	OCT 19,88	800	800	****	****	3	2.0	1	61624	2	1	88		JH
OCT 22,88	OCT 21,88	800	800	1200	1600	1	11.4	1	61625	2	1	98		J
OCT 24,88	OCT 23,88	800	800	1900	2100	1	5.6	1	61626	2	1	90		JHM
OCT 25,88	OCT 24,88	800	800	1500	1800	1	4.0	1	61627	2	1	79		J
OCT 26,88	OCT 25,88	800	800	****	****	1	1.0	1	61628	2	1	40		HCM
OCT 28,88	OCT 27,88	800	800	130	430	1	1.6	1	61629	2	1	76		
NOV 1,88	OCT 31,88	800	800	2300	200	1	0.8	1	61630	2	1	72		
NOV 2,88	NOV 1,88	800	800	****	****	1	1.4	1	61631	2	1	70		
NOV 4,88	NOV 3,88	800	800	2300	800	1	5.2	1	61632	2	1	94		
NOV 5,88	NOV 4,88	800	1900	500	830	1	17.8	1	61633	2	1	93	B	NC
NOV 6,88	NOV 5,88	1900	1800	1900	1800	3	2.8	1	61636	2	1	106		HCM
NOV 7,88	NOV 6,88	1800	800	****	****	3	2.2	1	61637	2	1	74		C
NOV 8,88	NOV 7,88	800	800	700	1630	1	4.2	1	61638	2	1	97		
NOV 9,88	NOV 8,88	800	800	****	****	1	0.8	1	61639	2	1	70		
NOV 10,88	NOV 9,88	800	800	2000	500	1	11.8	1	61640	2	1	89		
NOV 13,88	NOV 12,88	800	1600	2100	900	1	25.0	1	61641	2	1	94		N
NOV 17,88	NOV 16,88	800	800	900	1000	1	4.0	1	61642	2	1	87		C
NOV 20,88	NOV 19,88	800	1400	1900	1900	1	16.0	1	61643	2	1	96		N
NOV 21,88	NOV 20,88	1700	800	1200	1700	3	8.0	1	61646	2	1	89		
NOV 22,88	NOV 21,88	800	800	****	****	1	1.0	1	61647	2	1	20		
NOV 27,88	NOV 26,88	800	800	****	****	1	0.6	2	61648	2	1	239		N
DEC 1,88	NOV 30,88	800	800	****	****	2	2.4	2	61649	2	1	101		
DEC 2,88	DEC 1,88	800	800	****	****	2	0.2	2	61650	2	1	****	E	N
DEC 9,88	DEC 8,88	800	800	****	****	2	0.2	2	61651	2	1	****	E	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01 PAGE : 8

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
SEP 13,88	SEP 12,88	213.0		37.0		3.72		4.13	******		0.1170		4.80		0.43
SEP 17,88	SEP 16,88	132.0	>	100.0		3.35		3.56	******	D	0.4180		13.70		1.27
SEP 19,88	SEP 18,88	48.0	D	61.0		******		4.09	******		0.1190	D	9.40		1.69
SEP 20,88	SEP 19,88	79.0		44.5		******		4.07	******		0.1320		5.95		0.59
SEP 25,88	SEP 22,88	1866.0		30.0		3.76		4.19	******		0.0942		3.00		0.49
SEP 28,88	SEP 27,88	******		******		******		******	******		******		******		******
OCT 2,88	OCT 1,88	596.0		23.0		4.23		4.27	******		0.0810		3.05		0.65
OCT 3,88	OCT 2,88	236.0	D	13.0		4.40		4.35	******		0.0724		1.80		0.22
OCT 6,88	OCT 5,88	510.0		8.0		4.66		4.73	******		0.0403		1.20	<W	0.01
OCT 10,88	OCT 9,88	84.0		38.0		******		5.02	******		0.0364		4.65	UG	3.13
OCT 11,88	OCT 10,88	692.0		9.0	UG	5.45	UG	7.10	******		0.0224		2.60		0.43
OCT 12,88	OCT 11,88	358.0	LG	2.0	UG	5.44	UG	6.84	******		0.0194	LG	0.40	<T	0.04
OCT 13,88	OCT 12,88	841.0	LG	2.5		4.96		5.43	******		0.0223	LG	0.70	LG	0.08
OCT 16,88	OCT 15,88	111.0		50.0		3.91		4.12	******		0.1200		7.05		1.21
OCT 17,88	OCT 16,88	98.0		24.0		******		4.54	******		0.0585		3.95		0.56
OCT 18,88	OCT 17,88	1244.0		15.5		4.21		4.46	******		0.0560		1.60	<T	0.02
OCT 20,88	OCT 19,88	113.0		13.0		4.79		5.43	******		0.0246		2.95		0.40
OCT 22,88	OCT 21,88	723.0		39.0		3.55		4.04	******		0.1230		2.50		0.99
OCT 24,88	OCT 23,88	324.0		26.0		3.70		4.24	******		0.0863		2.30	<T	0.04
OCT 25,88	OCT 24,88	203.0		17.0		4.01		4.53	******		0.0550		1.95		0.49
OCT 26,88	OCT 25,88	26.0		19.5		******		4.46	******		0.0569		3.30		0.30
OCT 28,88	OCT 27,88	78.0		60.0		******		3.85	******		0.1750		5.05		1.65
NOV 1,88	OCT 31,88	37.0		43.0		******		4.02	******		0.1220		3.85		1.34
NOV 2,88	NOV 1,88	63.0		44.5		******		4.37	******		0.0818		6.35		2.07
NOV 4,88	NOV 3,88	316.0		64.5		3.78	D	3.84	******		0.1990		5.20		1.58
NOV 5,88	NOV 4,88	1066.0		16.5		4.33		4.29	******		0.0807		1.55		0.28
NOV 6,88	NOV 5,88	192.0		11.5		4.56		4.36	******		0.0706		1.15		0.29
NOV 7,88	NOV 6,88	105.0		10.0		4.57		4.55	******	D	0.0531	B	0.50		0.40
NOV 8,88	NOV 7,88	263.0		22.0		4.26		4.31	******		0.0746		1.85		0.37
NOV 9,88	NOV 8,88	36.0	D	64.0		******	!IS	******	******	!IS	******	D	4.90		1.65
NOV 10,88	NOV 9,88	676.0		20.0		******	D	4.29	******		0.0702		2.05		0.29
NOV 13,88	NOV 12,88	1522.0	D	23.0		4.15		4.28	******		0.0785		2.05		0.42
NOV 17,88	NOV 16,88	224.0	D	8.5		4.15		4.29	******		0.0750		4.55		0.44
NOV 20,88	NOV 19,88	989.0		17.5		4.29		4.31	******		0.0654		1.70		0.29
NOV 21,88	NOV 20,88	458.0		15.0		4.36		4.43	******		0.0548		1.70		0.20
NOV 22,88	NOV 21,88	13.0	!IS	******		******		4.90	******		0.0288	!IS	******	!IS	******
NOV 27,88	NOV 26,88	92.0	!CR	******		******		3.82	******	D	0.1970	UG	9.10		0.18
DEC 1,88	NOV 30,88	156.0	!CR	******		4.56		4.66	******		0.0492		2.65		0.96
DEC 2,88	DEC 1,88	******		******		******		******	******		******		******		******
DEC 9,88	DEC 8,88	******		******		******		******	******		******		******		******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L
SEP 13,88	SEP 12,88	0.48	B	1.16		0.085		0.040		0.080		0.370		0.0741
SEP 17,88	SEP 16,88	0.76		0.35		0.115		0.100	D	0.120		0.920		0.2754
SEP 19,88	SEP 18,88	D 1.90	D	0.55	D	0.395		0.160	D	0.130		1.690		0.0813
SEP 20,88	SEP 19,88	0.48	B	1.04		0.100		0.095		0.110		0.466		0.0851
SEP 25,88	SEP 22,88	0.18		0.11		0.030	<T	0.020		0.040		0.306		0.0646
SEP 28,88	SEP 27,88	******		******		******		******		******		******		******
OCT 2,88	OCT 1,88	0.12		0.16	<T	0.010		0.035	D	0.090		0.770		0.0537
OCT 3,88	OCT 2,88	<T 0.02	D	0.19	<W	0.005		0.035		0.050		0.320		0.0447
OCT 6,88	OCT 5,88	<W 0.02	<W	0.01	<W	0.005	<T	0.020	<T	0.020		0.166		0.0186
OCT 10,88	OCT 9,88	2.64		0.38		0.570		0.160		0.060		1.690		0.0095
OCT 11,88	OCT 10,88	0.52		0.11		0.100		0.090		0.030		0.810	UG	0.0001
OCT 12,88	OCT 11,88	0.12	<T	0.02		0.040		0.115	<T	0.020	LG	0.126	UG	0.0001
OCT 13,88	OCT 12,88	<T 0.04		0.11	<T	0.015	<T	0.010		0.060		0.160		0.0037
OCT 16,88	OCT 15,88	1.24		0.30		0.155		0.125	UG	0.235		0.966		0.0759
OCT 17,88	OCT 16,88	0.78		0.24		0.160		0.085		0.070		0.486		0.0288
OCT 18,88	OCT 17,88	<T 0.06	<T	0.03	<T	0.010	<T	0.020		0.025		0.146		0.0347
OCT 20,88	OCT 19,88	0.50		0.29		0.095		0.035		0.025		0.906		0.0037
OCT 22,88	OCT 21,88	0.14		0.17	<T	0.015		0.025	<T	0.015		0.386		0.0912
OCT 24,88	OCT 23,88	0.12		0.06	<T	0.015		0.030		0.025		0.306		0.0575
OCT 25,88	OCT 24,88	0.34		0.17		0.060		0.050	<T	0.020		0.396		0.0295
OCT 26,88	OCT 25,88	0.40		0.56		0.060		0.040		0.050		1.100		0.0347
OCT 28,88	OCT 27,88	1.22		0.39		0.145		0.065		0.070		0.636		0.1413
NOV 1,88	OCT 31,88	!IS ******		0.24	!IS	******	!IS	******	!IS	******		0.440		0.0955
NOV 2,88	NOV 1,88	D 2.02		0.80	D	0.355	D	0.155	D	0.135		1.570		0.0427
NOV 4,88	NOV 3,88	0.32		0.24		0.040	D	0.055		0.075		0.770	D	0.1445
NOV 5,88	NOV 4,88	0.10		0.20		0.035		0.050		0.085	<W	0.006		0.0513
NOV 6,88	NOV 5,88	<T 0.04		0.06	<T	0.015	<T	0.015	<T	0.015		0.256		0.0437
NOV 7,88	NOV 6,88	<T 0.10	<T	0.04	D	0.025	<W	0.005	<T	0.015		0.090		0.0282
NOV 8,88	NOV 7,88	0.20		0.10	<T	0.025	<T	0.015	<T	0.020	LG	0.040		0.0490
NOV 9,88	NOV 8,88	!IS ******	D	0.64	!IS	******	!IS	******	!IS	******	D	0.800	!IS	******
NOV 10,88	NOV 9,88	<T 0.10		0.14	<T	0.015	<T	0.010		0.045	D	0.106	D	0.0513
NOV 13,88	NOV 12,88	<T 0.06		0.10	<T	0.010	<T	0.015	<T	0.025	D	0.226		0.0525
NOV 17,88	NOV 16,88	0.72		0.40		0.090		0.060		0.135	D	0.420		0.0513
NOV 20,88	NOV 19,88	<T 0.04		0.08	<T	0.005	<T	0.020	<T	0.020		0.130		0.0490
NOV 21,88	NOV 20,88	<T 0.04	<T	0.03	<W	0.005	<T	0.015	<T	0.010		0.140		0.0372
NOV 22,88	NOV 21,88	!IS ******	!IS	******	!IS	******	!IS	******	!IS	******	LG	0.030		0.0126
NOV 27,88	NOV 26,88	0.78		0.70		0.220		0.140	!CR	******		0.796		0.1514
DEC 1,88	NOV 30,88	0.72	D	0.63		0.140		0.065	D	0.270		0.840		0.0219
DEC 2,88	DEC 1,88	******		******		******		******		******		******		******
DEC 9,88	DEC 8,88	******		******		******		******		******		******		******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01 PAGE : 10

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
DEC 11,88	DEC 10,88	800	800	****	****	2	0.3	2	61652	2	1	****	E	N
DEC 13,88	DEC 12,88	800	800	****	****	2	1.6	2	61653	2	1	53		
DEC 18,88	DEC 17,88	800	800	1800	2000	2	2.8	2	61654	2	1	76		J
DEC 19,88	DEC 18,88	800	800	1900	2200	1	0.1	2	61655	2	1	****	E	N
DEC 21,88	DEC 20,88	800	800	1400	1900	3	1.6	2	61656	2	1	119	CD	J
DEC 23,88	DEC 22,88	800	800	2100	400	3	11.2	2	61657	2	1	108		J
DEC 24,88	DEC 23,88	800	1800	1500	1800	3	4.2	2	61658	2	1	117		J
DEC 27,88	DEC 26,88	800	1030	500	700	3	5.2	2	61659	2	1	180		NJ
DEC 28,88	DEC 27,88	1030	1030	****	****	1	****	2	61660	2	1	****		J
DEC 30,88	DEC 29,88	800	800	****	****	3	0.2	2	61661	2	1	****	E	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM 601

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
DEC 11,88	DEC 10,88	******	******	******	******	******	******	******	******
DEC 13,88	DEC 12,88	55.0	!IS ******	******	UG 8.11	******	<W 0.0010	0.60	1.04
DEC 18,88	DEC 17,88	138.0	!IS ******	4.42	5.37	******	0.0241	2.30	1.15
DEC 19,88	DEC 18,88	******	******	******	******	******	******	******	******
DEC 21,88	DEC 20,88	123.0	30.0	UG 5.27	UG 6.92	******	0.0230	5.15	0.98
DEC 23,88	DEC 22,88	780.0	29.5	LG 3.38	4.19	******	0.0890	2.75	0.41
DEC 24,88	DEC 23,88	317.0	13.5	3.69	D 4.57	******	D 0.0468	1.60	0.26
DEC 27,88	DEC 26,88	602.0	42.5	LG 3.37	4.03	******	0.1250	4.50	0.24
DEC 28,88	DEC 27,88	692.0	23.0	3.54	4.28	******	0.0730	1.75	0.38
DEC 30,88	DEC 29,88	******	******	******	******	******	******	******	******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01 PAGE : 12

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L
DEC 11,88	DEC 10,88	******		******		******		******		******		******		******
DEC 13,88	DEC 12,88	0.54		0.76		0.065		0.040		0.160	U	14.900	UG	0.0000
DEC 18,88	DEC 17,88	1.30		0.69		0.180	D	0.070		0.235		0.766		0.0043
DEC 19,88	DEC 18,88	******		******		******		******		******		******		******
DEC 21,88	DEC 20,88	1.92		1.32		0.380		0.170		0.755		1.020	UG	0.0001
DEC 23,88	DEC 22,88	<T 0.10	D	0.19	<T	0.020	<T	0.015		0.050		0.216		0.0646
DEC 24,88	DEC 23,88	0.36		0.17		0.030		0.055		0.055		0.110	D	0.0269
DEC 27,88	DEC 26,88	0.22		0.41		0.040		0.030	D	0.225		0.196		0.0933
DEC 28,88	DEC 27,88	<T 0.04	D	0.01	<T	0.010	<T	0.020		0.040		0.150		0.0525
DEC 30,88	DEC 29,88	******		******		******		******		******		******		******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 1,88	DEC 31,87	800	900	2400	900	2	0.6	2	63822	2	1	38		N
JAN 2,88	JAN 1,88	900	930	900	930	2	1.0	2	63823	2	1	18		N
JAN 4,88	JAN 3,88	800	700	100	200	2	0.6	2	63824	2	1	38		N
JAN 5,88	JAN 4,88	700	800	800	100	2	6.0	2	63825	2	1	33		NCM
JAN 6,88	JAN 5,88	800	800	900	1100	2	2.8	2	63826	2	1	22		N
JAN 7,88	JAN 6,88	800	800	1300	2100	2	2.6	2	63827	2	1	59		C
JAN 9,88	JAN 8,88	800	800	****	****	2	0.7	2	63828	2	1	57		
JAN 10,88	JAN 9,88	800	800	1200	1400	2	0.4	2	63829	2	1	117		X
JAN 13,88	JAN 12,88	800	800	600	2400	3	2.2	2	63830	2	1	70		
JAN 14,88	JAN 13,88	800	800	900	1500	2	0.7	2	63831	2	1	U 4	GE	
JAN 15,88	JAN 14,88	800	800	****	400	2	0.9	2	63832	2	1	3	E	N
JAN 16,88	JAN 15,88	800	800	830	1200	2	0.5	2	63833	2	1	****	EF	
JAN 17,88	JAN 16,88	830	900	100	900	1	2.4	2	63834	2	1	117		
JAN 18,88	JAN 17,88	900	800	900	800	1	10.1	2	63835	2	1	99		
JAN 19,88	JAN 18,88	800	800	800	1200	1	0.6	2	63836	2	1	106		
JAN 20,88	JAN 19,88	800	800	100	400	1	3.3	2	63837	2	1	95		
JAN 21,88	JAN 20,88	800	800	2100	800	2	1.8	2	63838	2	1	70		
JAN 22,88	JAN 21,88	800	800	800	1200	2	0.3	2	63839	2	1	****	E	N
JAN 23,88	JAN 22,88	800	800	1200	1500	2	0.5	2	63840	2	1	12		XN
JAN 24,88	JAN 23,88	800	1000	2400	1000	2	2.5	2	63841	2	1	28		N
JAN 25,88	JAN 24,88	1000	800	1000	1300	2	0.7	2	63842	2	1	8		XN
JAN 26,88	JAN 25,88	800	800	1200	100	2	0.4	2	63843	2	1	11	E	N
JAN 28,88	JAN 27,88	800	800	2100	100	2	1.5	2	63844	2	1	11		NHM
FEB 1,88	JAN 31,88	800	800	1030	2200	1	12.2	2	63845	2	1	109		
FEB 2,88	FEB 1,88	800	800	1200	1700	3	12.5	2	63848	2	1	22		N
FEB 4,88	FEB 3,88	800	800	2000	2400	2	4.8	2	63849	2	1	55		M
FEB 5,88	FEB 4,88	800	800	1000	1700	2	0.8	2	63850	2	1	3	E	N
FEB 6,88	FEB 5,88	800	800	900	2400	2	5.4	2	63851	2	1	23		NH
FEB 7,88	FEB 6,88	800	800	900	2400	2	1.9	2	63852	2	1	13		NHCM
FEB 8,88	FEB 7,88	800	800	1000	2400	2	6.4	2	63853	2	1	23		N
FEB 10,88	FEB 9,88	700	800	700	1100	2	2.7	2	63854	2	1	15		N
FEB 12,88	FEB 11,88	800	800	1200	100	2	20.1	2	63855	2	1	61		
FEB 13,88	FEB 12,88	800	800	1200	800	2	2.4	2	63856	2	1	12		N
FEB 14,88	FEB 13,88	800	800	800	1700	2	0.5	2	63857	2	1	9		XN
FEB 15,88	FEB 14,88	800	800	****	****	1	5.1	2	63858	2	1	108		
FEB 17,88	FEB 16,88	800	800	****	****	2	0.8	2	63862	2	1	****	E	N
FEB 20,88	FEB 19,88	800	800	1200	200	3	14.3	2	63859	2	1	90		
FEB 21,88	FEB 20,88	800	800	900	2000	2	7.2	2	63860	2	1	41		N
FEB 23,88	FEB 22,88	800	800	900	1200	3	0.6	2	63861	2	1	64		H
FEB 24,88	FEB 23,88	800	800	800	1600	2	1.2	2	63863	2	1	44		N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM 803

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L	NITRATE AS N MG/L
JAN 1,88	DEC 31,87	15.0	40.5	******	UG	7.57	******		0.0121		4.45	0.98
JAN 2,88	JAN 1,88	12.0	19.0	******	UG	7.46	******		0.0125	LG	0.35	0.23
JAN 4,88	JAN 3,88	15.0	9.0	******	UG	6.75	******		0.0146		0.75	0.45
JAN 5,88	JAN 4,88	130.0	40.5	******	UG	7.83	******		0.0124		1.15	0.71
JAN 6,88	JAN 5,88	40.0	27.5	******	UG	7.66	******		0.0171		0.60	0.34
JAN 7,88	JAN 6,88	99.0	11.0	******	UG	6.97	******		0.0140	LG	0.35	0.13
JAN 9,88	JAN 8,88	26.0	17.5	******		4.97	******		0.0350		0.95	1.15
JAN 10,88	JAN 9,88	30.0	******	******		******	******		******		******	******
JAN 13,88	JAN 12,88	99.0	54.0	3.99		4.18	******		0.1080		6.65	1.72
JAN 14,88	JAN 13,88	2.0	******	******		******	******		******		******	******
JAN 15,88	JAN 14,88	2.0	******	******		******	******		******		******	******
JAN 16,88	JAN 15,88	******	******	******		******	******		******		******	******
JAN 17,88	JAN 16,88	181.0	23.5	4.07		4.31	******		0.0704		2.00	0.54
JAN 18,88	JAN 17,88	645.0	30.5	3.98		4.15	******		0.0957		2.00	0.63
JAN 19,88	JAN 18,88	41.0	65.5	******	!IS	******	******	!IS	******		3.40	1.96
JAN 20,88	JAN 19,88	203.0	36.0	3.79		4.14	******		0.1130		3.15	0.89
JAN 21,88	JAN 20,88	81.0	13.0	******		4.70	******		0.0486		1.95	0.37
JAN 22,88	JAN 21,88	******	******	******		******	******		******		******	******
JAN 23,88	JAN 22,88	4.0	******	******		******	******		******		******	******
JAN 24,88	JAN 23,88	45.0	19.5	******		4.53	******		0.0594		1.75	0.90
JAN 25,88	JAN 24,88	4.0	******	******		******	******		******		******	******
JAN 26,88	JAN 25,88	3.0	******	******		******	******		******		******	******
JAN 28,88	JAN 27,88	11.0	6.5	******		6.27	******		0.0172		0.55	0.43
FEB 1,88	JAN 31,88	858.0	21.5	4.35		4.45	******		0.0633		2.50	0.28
FEB 2,88	FEB 1,88	183.0	15.5	4.65		4.82	******		0.0413		2.65	0.24
FEB 4,88	FEB 3,88	170.0	7.5	4.73		4.93	******		0.0344	LG	0.30	0.26
FEB 5,88	FEB 4,88	2.0	******	******		******	******		******		******	******
FEB 6,88	FEB 5,88	83.0	9.0	******		5.27	******		0.0281		0.60	0.46
FEB 7,88	FEB 6,88	16.0	6.5	******	UG	7.02	******		0.0150	LG	0.45	0.19
FEB 8,88	FEB 7,88	96.0	17.5	******		4.53	******		0.0586		0.80	0.75
FEB 10,88	FEB 9,88	27.0	21.5	******		4.43	******		0.0687		0.90	0.84
FEB 12,88	FEB 11,88	798.0	47.0	3.99		4.04	******		0.1370		2.45	1.22
FEB 13,88	FEB 12,88	19.0	6.0	******	!IR	******	******		0.0197	LG	0.40	0.16
FEB 14,88	FEB 13,88	3.0	******	******		******	******		******		******	******
FEB 15,88	FEB 14,88	355.0	D 40.0	4.06		4.10	******		0.1180		3.10	0.78
FEB 17,88	FEB 16,88	******	******	******		******	******		******		******	******
FEB 20,88	FEB 19,88	828.0	26.0	4.24		4.33	******		0.0691		1.55	0.55
FEB 21,88	FEB 20,88	193.0	20.0	4.50		4.59	******		0.0472		1.40	0.49
FEB 23,88	FEB 22,88	25.0	!IS ******	******	UG	6.86	******		0.0206		2.95	0.94
FEB 24,88	FEB 23,88	34.0	11.0	******	UG	6.92	******		0.0168		0.95	0.78

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 1,88	DEC 31,87	!IS ******	0.42	!IS ******	!IS ******	!IS ******	0.620	UG 0.0000
JAN 2,88	JAN 1,88	!IS ******	0.21	!IS ******	!IS ******	!IS ******	LG 0.045	UG 0.0000
JAN 4,88	JAN 3,88	!IS ******	0.25	!IS ******	!IS ******	!IS ******	0.125	UG 0.0002
JAN 5,88	JAN 4,88	UG 4.18	0.46	UG 0.815	0.120	0.140	0.195	UG 0.0000
JAN 6,88	JAN 5,88	!IS ******	0.37	!IS ******	!IS ******	!IS ******	0.130	UG 0.0000
JAN 7,88	JAN 6,88	1.00	0.16	0.190	<T 0.015	0.085	0.120	UG 0.0001
JAN 9,88	JAN 8,88	!IS ******	0.37	!IS ******	!IS ******	!IS ******	0.205	0.0107
JAN 10,88	JAN 9,88	******	******	******	******	******	******	******
JAN 13,88	JAN 12,88	1.46	0.52	0.290	0.075	0.135	1.520	0.0661
JAN 14,88	JAN 13,88	******	******	******	******	******	******	******
JAN 15,88	JAN 14,88	******	******	******	******	******	******	******
JAN 16,88	JAN 15,88	******	******	******	******	******	******	******
JAN 17,88	JAN 16,88	0.24	0.18	0.035	<T 0.020	0.075	0.280	0.0490
JAN 18,88	JAN 17,88	<T 0.10	0.17	<T 0.010	<T 0.020	0.035	0.230	0.0708
JAN 19,88	JAN 18,88	0.22	0.46	<T 0.020	0.035	0.050	1.130	!IS ******
JAN 20,88	JAN 19,88	0.26	0.22	0.030	<T 0.015	0.050	0.400	0.0724
JAN 21,88	JAN 20,88	0.22	0.09	0.055	<T 0.010	0.050	0.310	0.0200
JAN 22,88	JAN 21,88	******	******	******	******	******	******	******
JAN 23,88	JAN 22,88	******	******	******	******	******	******	******
JAN 24,88	JAN 23,88	!IS ******	0.46	!IS ******	!IS ******	!IS ******	0.370	0.0295
JAN 25,88	JAN 24,88	******	******	******	******	******	******	******
JAN 26,88	JAN 25,88	******	******	******	******	******	******	******
JAN 28,88	JAN 27,88	0.46	0.37	0.070	0.065	0.250	0.080	0.0005
FEB 1,88	JAN 31,88	0.22	0.51	0.055	<T 0.015	0.300	0.290	0.0355
FEB 2,88	FEB 1,88	0.14	0.10	0.030	0.025	0.100	0.600	0.0151
FEB 4,88	FEB 3,88	<T 0.08	0.07	<T 0.015	<W 0.005	<T 0.020	LG 0.050	0.0117
FEB 5,88	FEB 4,88	******	******	******	******	******	******	******
FEB 6,88	FEB 5,88	0.42	0.26	0.095	<T 0.015	0.115	0.100	0.0054
FEB 7,88	FEB 6,88	0.34	0.16	0.065	<T 0.015	0.085	0.090	UG 0.0001
FEB 8,88	FEB 7,88	0.50	0.21	0.075	<T 0.015	0.060	0.210	0.0295
FEB 10,88	FEB 9,88	0.36	0.35	0.055	<T 0.010	0.140	0.220	0.0372
FEB 12,88	FEB 11,88	0.20	0.40	0.035	<T 0.015	0.095	0.390	0.0912
FEB 13,88	FEB 12,88	<T 0.08	<T 0.04	<T 0.015	<T 0.005	0.035	0.070	!IR ******
FEB 14,88	FEB 13,88	******	******	******	******	******	******	******
FEB 15,88	FEB 14,88	0.24	0.22	0.035	<T 0.020	0.135	0.390	0.0794
FEB 17,88	FEB 16,88	******	******	******	******	******	******	******
FEB 20,88	FEB 19,88	<T 0.08	0.09	<T 0.015	<T 0.005	0.040	0.280	0.0468
FEB 21,88	FEB 20,88	0.10	0.13	<T 0.020	<T 0.010	0.035	0.460	0.0257
FEB 23,88	FEB 22,88	1.24	0.47	0.170	0.070	0.300	0.900	UG 0.0001
FEB 24,88	FEB 23,88	!IS ******	D 0.48	!IS ******	!IS ******	!IS ******	0.220	UG 0.0001

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTMOPE/DAILY/AEROCHEM #03

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
FEB 25,88	FEB 24,88	800	800	900	2200	2	3.4	2	63864	2	1	57		JHM
FEB 27,88	FEB 26,88	800	800	300	700	2	1.0	2	63865	2	1	21		NHM
MAR 9,88	MAR 8,88	800	800	200	800	1	1.4	2	63866	2	1	172		NH
MAR 12,88	MAR 11,88	800	800	****	****	3	10.2	2	63867	2	1	94		
MAR 14,88	MAR 13,88	800	800	100	300	2	3.0	2	63868	2	1	42		N
MAR 15,88	MAR 14,88	800	800	2100	100	2	0.8	2	63869	2	1	19		N
MAR 18,88	MAR 17,88	800	800	2400	800	2	0.5	2	63870	2	1	59		
MAR 19,88	MAR 18,88	800	800	800	100	2	3.9	2	63871	2	1	60		J
MAR 20,88	MAR 19,88	800	800	1400	100	2	4.1	2	63872	2	1	49		NJ
MAR 21,88	MAR 20,88	800	800	1500	1800	2	0.4	2	63873	2	1	39		NHCM
MAR 24,88	MAR 23,88	800	800	1900	100	1	6.1	2	63874	2	1	112	C	J
MAR 25,88	MAR 24,88	800	800	2000	100	1	0.3	2	63875	2	1	93		
MAR 26,88	MAR 25,88	800	900	1000	1500	1	14.0	2	63876	2	1	107	C	
MAR 27,88	MAR 26,88	900	900	1400	1800	1	3.4	2	63879	2	1	113		J
MAR 28,88	MAR 27,88	900	800	1000	1300	3	1.1	2	63880	2	1	14		NHCM
MAR 29,88	MAR 28,88	800	800	2300	200	1	0.5	1	63881	2	1	165		N
APR 2,88	APR 1,88	800	800	100	700	1	0.9	2	63882	2	1	91		
APR 3,88	APR 2,88	800	1000	100	800	1	29.2	1	63883	2	1	105		
APR 4,88	APR 3,88	1000	700	200	700	1	6.0	1	63884	2	1	94		
APR 5,88	APR 4,88	800	800	800	900	1	0.3	1	63885	2	1	****	E	N
APR 8,88	APR 7,88	800	800	1900	****	1	0.9	1	63886	2	1	72		
APR 14,88	APR 13,88	800	800	****	****	3	12.4	1	63887	2	1	61		H
APR 18,88	APR 17,88	800	800	2200	****	1	7.9	1	63888	2	1	96		J
APR 21,88	APR 20,88	800	800	1000	2100	1	10.2	1	63889	2	1	94		J
APR 23,88	APR 22,88	800	800	30	745	1	9.6	1	63890	2	1	107		JH
APR 24,88	APR 23,88	800	800	****	****	1	0.7	1	63891	2	1	U 127	G	
APR 27,88	APR 26,88	800	800	900	1100	1	2.2	1	63892	2	1	80		JH
APR 28,88	APR 27,88	800	800	****	****	1	3.8	1	63893	2	1	90		J
APR 29,88	APR 28,88	800	800	****	****	1	1.2	1	63894	2	1	66		
APR 30,88	APR 29,88	800	800	1600	1900	1	5.6	1	63895	2	1	83		J
MAY 9,88	MAY 8,88	800	730	2300	730	1	0.3	1	63896	2	1	36		N
MAY 10,88	MAY 9,88	730	800	730	1000	1	17.0	1	63897	2	1	95		NJ
MAY 11,88	MAY 10,88	800	800	1000	1200	1	1.4	1	63900	2	1	78		H
MAY 14,88	MAY 13,88	800	800	830	1030	1	3.8	1	63901	2	1	88	C	J
MAY 16,88	MAY 15,88	800	800	900	1200	1	22.9	1	63902	2	1	100		NJ
MAY 17,88	MAY 16,88	800	800	900	1200	1	9.6	1	63903	2	1	96		JHM
MAY 19,88	MAY 18,88	800	800	2000	2300	1	2.0	1	63904	2	1	101		HCM
MAY 20,88	MAY 19,88	800	800	****	****	1	1.0	1	63905	2	1	63		
MAY 22,88	MAY 20,88	800	800	****	****	1	8.2	1	63906	2	1	93		Y2
JUN 2,88	JUN 1,88	800	800	1900	2300	1	1.0	1	63907	2	1	81		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM		PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
FEB 25,88	FEB 24,88	126.0	7.5	UG	5.36	UG	7.15	******	0.0137		0.70		0.53
FEB 27,88	FEB 26,88	14.0	7.5		******	UG	7.06	******	0.0162		0.80		0.40
MAR 9,88	MAR 8,88	155.0	27.5		4.49		4.66	******	0.0518		3.20		0.97
MAR 12,88	MAR 11,88	618.0	28.5		4.41		4.53	******	0.0559		3.40		0.62
MAR 14,88	MAR 13,88	82.0	23.5		******		4.51	******	0.0539		2.20		0.44
MAR 15,88	MAR 14,88	10.0	!IR ******		******	!IR	******	******	!IR ******		!IS ******	!IR	******
MAR 18,88	MAR 17,88	19.0	LG 5.0		******		6.53	******	0.0149		LG 0.35		0.22
MAR 19,88	MAR 18,88	151.0	39.0		3.88		4.33	******	0.0765		2.75		1.31
MAR 20,88	MAR 19,88	131.0	10.5		4.54		5.12	******	0.0256		0.75		0.38
MAR 21,88	MAR 20,88	10.0	LG 3.5		******		6.59	******	0.0148		<T 0.25	LG	0.07
MAR 24,88	MAR 23,88	440.0	33.5	UG	5.28	UG	6.88	******	0.0227		5.35		1.23
MAR 25,88	MAR 24,88	18.0	21.0		******		4.51	******	0.0539		2.65		0.39
MAR 26,88	MAR 25,88	961.0	17.5		4.58		4.80	******	0.0361		2.30		0.38
MAR 27,88	MAR 26,88	248.0	18.0	UG	5.42		6.20	******	0.0207		3.15		0.58
MAR 28,88	MAR 27,88	10.0	LG 3.5		******	UG	6.71	******	0.0137		LG 0.40	LG	0.05
MAR 29,88	MAR 28,88	53.0	54.0		******	D	4.15	******	0.1150		8.20		0.66
APR 2,88	APR 1,88	53.0	40.0		******	D	4.38	******	0.0759		7.45		0.84
APR 3,88	APR 2,88	1966.0	25.0		4.05		4.35	******	0.0691		2.40		0.24
APR 4,88	APR 3,88	365.0	20.5		4.16		4.49	******	0.0549		1.85		0.28
APR 5,88	APR 4,88	******	******		******		******	******	******		******		******
APR 8,88	APR 7,88	42.0	80.5		******		3.81	******	0.2110	UG	11.50		2.55
APR 14,88	APR 13,88	486.0	28.0		4.60		5.02	******	0.0419		4.15		1.34
APR 18,88	APR 17,88	488.0	25.5	UG	6.29	UG	7.19	******	0.0224		3.60		0.78
APR 21,88	APR 20,88	621.0	12.0	UG	5.25	UG	6.83	******	0.0202		1.55		0.38
APR 23,88	APR 22,88	663.0	21.0	LG	3.42		4.51	******	0.0582		2.90		0.31
APR 24,88	APR 23,88	57.0	!RE ******		******	!RE	******	******	!RE ******		!RE ******	!RE	******
APR 27,88	APR 26,88	114.0	27.5		4.33	D	5.65	******	0.0306		5.15		0.90
APR 28,88	APR 27,88	220.0	59.5		3.61		4.18	******	0.1150		7.90		1.51
APR 29,88	APR 28,88	51.0	35.5		******		4.62	******	0.0621		4.90		1.21
APR 30,88	APR 29,88	299.0	13.5		4.19		5.21	******	0.0311		3.00		0.18
MAY 9,88	MAY 8,88	7.0	******		******		******	******	******		******		******
MAY 10,88	MAY 9,88	1045.0	14.0		3.62		4.83	******	0.0422		2.25		0.30
MAY 11,88	MAY 10,88	70.0	28.0		******		4.98	******	D 0.0391		4.55		0.89
MAY 14,88	MAY 13,88	216.0	33.0	UG	5.46	UG	7.07	******	0.0169		5.60		1.01
MAY 16,88	MAY 15,88	1478.0	34.5	D	3.63		4.35	******	0.0816		4.40		0.64
MAY 17,88	MAY 16,88	591.0	14.0	D	4.29	UG	7.04	******	0.0175		1.75		0.57
MAY 19,88	MAY 18,88	130.0	7.5		******	UG	7.11	******	0.0120		LG 0.60		0.25
MAY 20,88	MAY 19,88	41.0	15.0		******		5.65	******	0.0271		3.20		0.37
MAY 22,88	MAY 20,88	491.0	31.0		******		4.29	******	0.0772		3.30		0.54
JUN 2,88	JUN 1,88	52.0	D 47.5		******	!IS	******	******	!IS ******		7.00		0.84

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
FEB 25,88	FEB 24,88	0.66	0.32	0.125	<T 0.010	0.090	0.210	UG 0.0001
FEB 27,88	FEB 26,88	0.84	0.33	0.125	<T 0.015	0.130	0.200	UG 0.0001
MAR 9,88	MAR 8,88	1.00	0.43	0.135	0.080	0.235	0.860	0.0219
MAR 12,88	MAR 11,88	0.72	0.29	0.110	0.070	0.140	0.570	0.0295
MAR 14,88	MAR 13,88	0.16	0.10	0.035	<T 0.010	0.045	0.480	0.0309
MAR 15,88	MAR 14,88	!IR ******	!IR ******	!IR ******	!IR ******	!IR ******	!IR ******	!IR ******
MAR 18,88	MAR 17,88	!IS ******	0.08	!IS ******	!IS ******	!IS ******	0.130	0.0003
MAR 19,88	MAR 18,88	0.30	0.44	0.060	<T 0.020	0.060	1.210	0.0468
MAR 20,88	MAR 19,88	0.18	D 0.27	0.035	<T 0.005	0.050	0.360	0.0076
MAR 21,88	MAR 20,88	<T 0.02	0.08	<T 0.005	<W 0.005	0.045	0.170	0.0003
MAR 24,88	MAR 23,88	1.64	0.54	0.360	0.080	0.310	1.680	UG 0.0001
MAR 25,88	MAR 24,88	0.40	0.18	0.055	<T 0.025	0.105	0.450	0.0309
MAR 26,88	MAR 25,88	0.36	0.14	0.045	0.035	0.145	0.460	0.0158
MAR 27,88	MAR 26,88	0.60	0.15	0.105	0.155	0.060	1.050	0.0006
MAR 28,88	MAR 27,88	<T 0.10	0.05	<T 0.010	<W 0.005	0.035	0.180	UG 0.0002
MAR 29,88	MAR 28,88	1.02	0.23	0.150	0.070	0.220	0.920	D 0.0708
APR 2,88	APR 1,88	1.78	0.42	0.315	0.185	0.340	0.750	D 0.0417
APR 3,88	APR 2,88	0.18	0.14	0.030	<T 0.025	0.095	0.230	0.0447
APR 4,88	APR 3,88	0.18	<T 0.02	<T 0.015	<T 0.020	0.035	0.310	0.0324
APR 5,88	APR 4,88	******	******	******	******	******	******	******
APR 8,88	APR 7,88	!IS ******	0.66	!IS ******	!IS ******	!IS ******	!IS ******	0.1549
APR 14,88	APR 13,88	1.32	0.28	0.305	0.055	0.135	1.450	0.0095
APR 18,88	APR 17,88	1.14	0.14	0.275	0.070	0.125	1.580	UG 0.0001
APR 21,88	APR 20,88	0.58	0.06	0.095	<T 0.025	<T 0.020	0.610	UG 0.0001
APR 23,88	APR 22,88	0.74	0.10	0.065	0.035	0.050	0.300	0.0309
APR 24,88	APR 23,88	!IS ******	!RE ******	!IS ******	!IS ******	!IS ******	!RE ******	!RE ******
APR 27,88	APR 26,88	0.34	0.09	0.075	0.040	0.060	2.120	D 0.0022
APR 28,88	APR 27,88	1.48	0.39	0.355	0.060	0.045	1.420	0.0661
APR 29,88	APR 28,88	0.50	0.16	0.110	0.040	0.030	1.800	0.0240
APR 30,88	APR 29,88	0.22	0.07	0.065	<T 0.020	0.040	0.690	0.0062
MAY 9,88	MAY 8,88	******	******	******	******	******	******	******
MAY 10,88	MAY 9,88	0.24	0.10	0.060	0.040	<T 0.015	0.400	0.0148
MAY 11,88	MAY 10,88	0.42	0.23	0.085	0.080	0.040	1.600	0.0105
MAY 14,88	MAY 13,88	1.18	0.17	0.195	0.175	0.155	2.050	UG 0.0001
MAY 16,88	MAY 15,88	0.52	0.16	0.080	0.055	0.025	0.725	0.0447
MAY 17,88	MAY 16,88	0.84	0.10	0.180	0.105	0.040	0.600	UG 0.0001
MAY 19,88	MAY 18,88	0.44	0.06	0.075	0.040	0.030	0.316	UG 0.0001
MAY 20,88	MAY 19,88	!IS ******	0.15	!IS ******	!IS ******	!IS ******	0.784	0.0022
MAY 22,88	MAY 20,88	<T 0.10	0.07	<T 0.015	<T 0.020	<T 0.010	0.618	0.0513
JUN 2,88	JUN 1,88	3.04	0.54	0.765	UG 1.100	UG 0.335	1.660	!IS ******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JUN 9,88	JUN 8,88	800	800	1500	1600	1	1.2	1	63908	2	1	76		
JUN 16,88	JUN 15,88	800	800	1900	45	1	3.9	1	63909	2	1	96		J
JUN 29,88	JUN 28,88	800	800	1800	1900	1	0.8	1	63911	2	1	70		
JUL 11,88	JUL 10,88	800	700	2200	****	1	2.4	1	63912	2	1	98		J
JUL 12,88	JUL 11,88	700	800	1900	100	1	20.8	1	63913	2	1	101		J
JUL 16,88	JUL 15,88	800	800	350	500	1	25.2	1	63916	2	1	104		J
JUL 17,88	JUL 16,88	800	800	2250	600	1	38.4	1	63917	2	1	104		J
JUL 21,88	JUL 20,88	800	800	****	****	1	0.5	1	63918	2	1	53		
JUL 22,88	JUL 21,88	800	800	1900	2000	1	1.3	1	63919	2	1	94		
JUL 24,88	JUL 22,88	800	800	****	****	1	12.9	1	63920	2	1	104		JYZ
JUL 25,88	JUL 24,88	800	800	1400	1500	1	1.8	1	63921	2	1	78		
JUL 26,88	JUL 25,88	800	800	1800	2000	1	1.4	1	63922	2	1	81		
JUL 28,88	JUL 27,88	800	800	****	****	1	1.2	1	63923	2	1	55		
JUL 31,88	JUL 30,88	800	800	1100	****	1	12.0	1	63925	2	1	96		
AUG 1,88	JUL 31,88	800	1000	700	950	1	5.0	1	63926	2	1	96		JH
AUG 5,88	AUG 4,88	800	800	1500	1600	1	4.0	1	63927	2	1	82		
AUG 6,88	AUG 5,88	800	800	1950	100	1	7.4	1	63928	2	1	97		
AUG 14,88	AUG 13,88	800	850	750	800	1	2.8	1	63929	2	1	74		J
AUG 15,88	AUG 14,88	850	800	****	****	1	8.2	1	63930	2	1	100		J
AUG 24,88	AUG 23,88	800	800	1500	2400	1	3.2	1	63931	2	1	95		TC
AUG 26,88	AUG 25,88	800	700	2000	100	1	4.0	1	63932	2	1	83		JHM
AUG 27,88	AUG 26,88	700	800	800	1000	1	1.0	1	63933	2	1	34		HM
AUG 29,88	AUG 28,88	800	800	1000	1200	1	1.4	1	63934	2	1	78		HCM
SEP 3,88	SEP 2,88	800	800	100	800	1	21.4	1	63935	2	1	94		
SEP 4,88	SEP 3,88	800	800	1700	700	1	21.7	1	63938	2	1	96		
SEP 5,88	SEP 4,88	800	800	950	300	1	5.4	1	63939	2	1	75		M
SEP 13,88	SEP 12,88	800	800	100	300	1	3.2	1	63941	2	1	54		J
SEP 17,88	SEP 16,88	800	800	****	400	1	2.2	1	63942	2	1	69		
SEP 18,88	SEP 17,88	800	800	2100	2300	1	5.2	1	63943	2	1	U 87	G	J
SEP 19,88	SEP 18,88	800	800	1800	2000	1	0.8	1	63944	2	1	48		
SEP 20,88	SEP 19,88	800	800	100	500	1	4.8	1	63945	2	1	89		
SEP 21,88	SEP 20,88	800	800	1600	2200	1	2.5	1	63946	2	1	69		JH
SEP 22,88	SEP 21,88	800	800	900	1100	1	0.8	1	63947	2	1	66		
SEP 23,88	SEP 22,88	800	800	2400	200	1	12.9	1	63948	2	1	93		
SEP 28,88	SEP 27,88	800	800	1900	2300	1	5.1	1	63949	2	1	98		
OCT 1,88	SEP 30,88	800	800	100	300	1	2.2	1	63950	2	1	65		
OCT 2,88	OCT 1,88	800	800	100	800	1	15.4	1	63951	2	1	98		
OCT 3,88	OCT 2,88	800	800	800	1200	1	8.6	1	63954	2	1	U 83	G	C
OCT 4,88	OCT 3,88	800	1200	1200	1800	1	2.0	1	63955	2	1	76		HM
OCT 6,88	OCT 5,88	800	800	1000	1400	1	1.8	1	63956	2	1	65		HCM

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03 PAGE : 8

REMOVAL DATE	EXPOSURE DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
JUN 9,88	JUN 8,88	59.0		40.0		******	!CR	******	******		0.0091		5.75		0.62
JUN 16,88	JUN 15,88	242.0		45.0		4.38	UG	7.00	******		0.0214		9.75		1.25
JUN 29,88	JUN 28,88	36.0		13.0		******	UG	6.89	******		0.0152		2.25		0.29
JUL 11,88	JUL 10,88	151.0	>	100.0	LG	3.03		3.58	******		0.2890		15.00		1.46
JUL 12,88	JUL 11,88	1347.0		16.5		3.62		4.90	******		0.0316		2.65		0.39
JUL 16,88	JUL 15,88	1680.0		48.5		3.62		4.06	******		0.1040		5.20		1.00
JUL 17,88	JUL 16,88	2580.0		20.5		3.82		4.42	******		0.0517		2.20		0.30
JUL 21,88	JUL 20,88	17.0		35.0		******	UG	7.53	******		0.0109		4.55		0.80
JUL 22,88	JUL 21,88	79.0		25.5		******	UG	7.45	******		0.0148		2.35		0.56
JUL 24,88	JUL 22,88	863.0		47.0		3.62		4.00	******		0.1190		4.40		0.79
JUL 25,88	JUL 24,88	91.0	D	25.5		******	D	4.79	******		0.0398		3.55		0.86
JUL 26,88	JUL 25,88	73.0		72.0		******		3.96	******		0.1380		8.10		1.83
JUL 28,88	JUL 27,88	43.0		15.0		******	UG	6.99	******		0.0193		1.80		0.38
JUL 31,88	JUL 30,88	742.0		43.5		3.73		4.09	******	D	0.1030		5.35		0.63
AUG 1,88	JUL 31,88	310.0		23.5		4.12		5.06	******		0.0355		3.60		0.80
AUG 5,88	AUG 4,88	212.0	>	100.0		3.45		3.69	******		0.2530	D	13.20		1.05
AUG 6,88	AUG 5,88	464.0		50.5		3.65		3.96	******		0.1370		4.70		0.64
AUG 14,88	AUG 13,88	134.0		62.5		3.48		3.97	******		0.1400		7.75		1.02
AUG 15,88	AUG 14,88	530.0		21.0		3.84		4.54	******		0.0598		2.70		0.41
AUG 24,88	AUG 23,88	195.0	>	100.0	LG	3.13		3.39	******		0.4010		15.00		1.85
AUG 26,88	AUG 25,88	214.0	D	16.5		4.63		5.52	******		0.0255		3.10		0.64
AUG 27,88	AUG 26,88	22.0	LG	4.5		******	B	6.89	******	D	0.0158		0.90	LG	0.06
AUG 29,88	AUG 28,88	70.0	>	100.0		******		3.57	******		0.3000		10.30	UG	2.75
SEP 3,88	SEP 2,88	1290.0		64.0		3.69		3.85	******		0.1860		6.80		0.75
SEP 4,88	SEP 3,88	1338.0		43.5		3.92		4.01	******		0.1230		4.30		0.49
SEP 5,88	SEP 4,88	261.0		24.0		4.11		4.24	******		0.0814		2.45		0.15
SEP 13,88	SEP 12,88	112.0		24.0		3.87		4.37	******		0.0734		3.45		0.50
SEP 17,88	SEP 16,88	98.0		82.0		******		3.82	******		0.2140		9.75		1.66
SEP 18,88	SEP 17,88	292.0		22.0		4.04		4.45	******		0.0669		3.40		0.44
SEP 19,88	SEP 18,88	25.0		37.0		******	!IS	******	******	!IS	******		5.95		1.21
SEP 20,88	SEP 19,88	276.0		40.5		3.81		4.10	******		0.1220		6.10		0.61
SEP 21,88	SEP 20,88	111.0		14.5		4.75		5.32	******		0.0287		3.30		0.38
SEP 22,88	SEP 21,88	34.0		6.0		******	!IS	******	******	!IS	******		0.90	LG	0.09
SEP 23,88	SEP 22,88	772.0		15.0		4.08		4.49	******		0.0582		1.75		0.25
SEP 28,88	SEP 27,88	322.0		31.5		4.20		4.32	******		0.0766		5.20		1.00
OCT 1,88	SEP 30,88	92.0		40.0		******		4.06	******		0.1130		5.00		0.99
OCT 2,88	OCT 1,88	976.0		14.5		4.36		4.48	******		0.0535		1.95		0.32
OCT 3,88	OCT 2,88	463.0		10.0		4.45		4.57	******		0.0496		1.80	<T	0.02
OCT 4,88	OCT 3,88	98.0		17.0		******	UG	7.43	******		0.0194		6.25		0.22
OCT 6,88	OCT 5,88	75.0		9.0		******	UG	7.41	******		0.0179		2.15		0.52

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JUN 9,88	JUN 8,88	D 2.88	0.32	D 0.700	0.185	0.055	1.540	!CR ******
JUN 16,88	JUN 15,88	3.38	0.33	0.730	0.170	0.190	1.540	UG 0.0001
JUN 29,88	JUN 28,88	!IS ******	0.15	!IS ******	!IS ******	!IS ******	!IS ******	UG 0.0001
JUL 11,88	JUL 10,88	1.38	0.38	0.355	0.070	0.055	0.838	0.2630
JUL 12,88	JUL 11,88	0.30	0.08	0.065	0.025	<T 0.015	0.706	0.0126
JUL 16,88	JUL 15,88	0.68	0.27	0.170	0.055	0.135	0.668	0.0871
JUL 17,88	JUL 16,88	0.10	0.09	0.030	<T 0.015	0.045	0.278	0.0380
JUL 21,88	JUL 20,88	2.66	0.37	0.665	0.060	0.045	!IS ******	UG 0.0000
JUL 22,88	JUL 21,88	1.92	0.21	0.305	0.085	0.045	1.320	UG 0.0000
JUL 24,88	JUL 22,88	0.32	0.17	0.070	0.045	<T 0.025	0.460	0.1000
JUL 25,88	JUL 24,88	0.62	0.26	D 0.180	0.085	0.025	1.140	D 0.0162
JUL 26,88	JUL 25,88	1.84	0.43	0.300	0.080	0.055	1.230	0.1096
JUL 28,88	JUL 27,88	!IS ******	0.11	!IS ******	!IS ******	!IS ******	D 1.330	UG 0.0001
JUL 31,88	JUL 30,88	0.50	0.13	0.080	0.040	0.030	0.720	0.0813
AUG 1,88	JUL 31,88	0.82	0.16	0.110	0.075	0.045	0.938	0.0087
AUG 5,88	AUG 4,88	0.80	0.37	0.145	0.050	0.045	1.410	0.2042
AUG 6,88	AUG 5,88	0.24	0.07	0.045	<T 0.015	<T 0.020	0.356	0.1096
AUG 14,88	AUG 13,88	1.08	0.30	0.190	0.065	0.110	0.786	0.1072
AUG 15,88	AUG 14,88	0.34	0.11	0.065	0.035	0.040	0.440	0.0288
AUG 24,88	AUG 23,88	0.46	UG 1.13	0.115	0.055	0.030	1.340	0.4074
AUG 26,88	AUG 25,88	0.65	0.13	0.148	0.071	0.054	0.490	0.0030
AUG 27,88	AUG 26,88	0.26	0.06	0.035	0.050	0.060	0.286	B 0.0001
AUG 29,88	AUG 28,88	1.78	0.60	0.310	0.225	0.050	1.700	0.2692
SEP 3,88	SEP 2,88	0.14	0.72	0.025	0.030	<T 0.020	0.700	0.1413
SEP 4,88	SEP 3,88	<W 0.02	0.67	<W 0.005	<T 0.025	<T 0.015	0.630	0.0977
SEP 5,88	SEP 4,88	<T 0.02	D 0.42	<T 0.010	<T 0.020	<T 0.005	0.400	0.0575
SEP 13,88	SEP 12,88	0.40	0.16	0.085	0.035	0.040	0.596	0.0427
SEP 17,88	SEP 16,88	0.80	0.28	0.150	0.105	0.050	1.700	0.1514
SEP 18,88	SEP 17,88	0.22	0.07	0.045	0.040	<T 0.020	0.866	0.0355
SEP 19,88	SEP 18,88	0.84	0.26	0.165	0.090	0.050	1.950	!IS ******
SEP 20,88	SEP 19,88	0.48	0.25	0.095	0.055	0.080	0.650	0.0794
SEP 21,88	SEP 20,88	0.18	0.15	0.035	0.030	<T 0.025	1.280	0.0048
SEP 22,88	SEP 21,88	!IS ******	<T 0.04	!IS ******	!IS ******	!IS ******	D 0.866	!IS ******
SEP 23,88	SEP 22,88	0.10	<T 0.04	<T 0.015	<T 0.010	0.025	0.270	0.0324
SEP 28,88	SEP 27,88	1.18	0.21	0.205	0.050	0.035	0.746	0.0479
OCT 1,88	SEP 30,88	0.48	0.25	0.140	0.040	0.075	0.776	0.0871
OCT 2,88	OCT 1,88	<T 0.08	0.07	<T 0.015	<T 0.015	0.035	0.276	0.0331
OCT 3,88	OCT 2,88	<W 0.02	<W 0.01	<W 0.005	<T 0.015	<T 0.010	0.230	0.0269
OCT 4,88	OCT 3,88	0.42	0.09	0.130	0.050	<T 0.025	1.890	UG 0.0000
OCT 6,88	OCT 5,88	0.52	0.22	0.090	0.030	0.025	0.830	UG 0.0000

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
OCT 7,88	OCT 6,88	800	1800	1100	1800	1	3.8	1	63957	2	1	92		HM
OCT 9,88	OCT 8,88	800	800	1400	2000	1	2.1	1	63958	2	1	82		JHCM
OCT 11,88	OCT 10,88	800	700	950	100	1	38.3	1	63959	2	1	99		NC
OCT 12,88	OCT 11,88	700	800	900	100	3	3.6	1	63961	2	1	74	B	JHM
OCT 13,88	OCT 12,88	800	800	1800	2400	3	****	1	63962	2	1	****		HCM
OCT 16,88	OCT 15,88	800	800	200	500	1	0.5	1	63963	2	1	49		N
OCT 17,88	OCT 16,88	800	800	1900	200	1	1.7	1	63964	2	1	84		H
OCT 18,88	OCT 17,88	800	600	1800	300	1	14.8	1	63965	2	1	95	B	HCM
OCT 19,88	OCT 18,88	600	800	700	1800	1	1.4	1	63966	2	1	63		HCM
OCT 20,88	OCT 19,88	800	800	900	1600	1	1.0	1	63967	2	1	56		
OCT 22,88	OCT 21,88	800	800	1200	2400	1	4.6	1	63968	2	1	89		J
OCT 24,88	OCT 22,88	800	800	2400	100	1	7.4	1	63969	2	1	94		Y2
OCT 25,88	OCT 24,88	800	700	900	700	1	17.0	1	63970	2	1	94		NJHM
OCT 26,88	OCT 25,88	700	700	****	****	3	5.0	1	63973	2	1	81		J
OCT 27,88	OCT 26,88	700	800	700	1800	3	8.4	1	63974	2	1	87		JHM
OCT 28,88	OCT 27,88	800	800	100	800	3	7.8	1	63975	2	1	91		J
NOV 1,88	OCT 31,88	800	800	100	2000	1	1.4	1	63976	2	1	61		
NOV 2,88	NOV 1,88	800	800	1700	200	1	0.5	1	63977	2	1	40		N
NOV 4,88	NOV 3,88	800	800	300	600	1	2.2	1	63978	2	1	78		
NOV 5,88	NOV 4,88	800	800	900	100	1	4.2	1	63979	2	1	101	A	
NOV 6,88	NOV 5,88	800	900	2100	900	1	17.3	1	63980	2	1	96		NCM
NOV 7,88	NOV 6,88	900	800	900	300	3	4.0	1	63981	2	1	70		HM
NOV 8,88	NOV 7,88	800	700	400	700	1	2.1	1	63982	2	1	130		N
NOV 9,88	NOV 8,88	700	800	700	1200	1	7.4	2	63983	2	1	94		
NOV 10,88	NOV 9,88	800	800	100	800	1	14.7	2	63984	2	1	102		
NOV 11,88	NOV 10,88	800	800	800	2300	1	2.9	2	63985	2	1	109		
NOV 13,88	NOV 12,88	800	1000	2300	1000	1	15.4	2	63986	2	1	100		
NOV 14,88	NOV 13,88	1000	800	1000	1200	1	0.5	2	63989	2	1	99		
NOV 17,88	NOV 16,88	800	800	900	1200	1	3.8	2	63991	2	1	148		NJHCM
NOV 21,88	NOV 20,88	800	800	1000	100	1	20.5	2	63992	2	1	95		N
NOV 22,88	NOV 21,88	800	800	900	1100	1	0.1	2	63993	2	1	****	E	N
NOV 27,88	NOV 26,88	800	800	1800	100	1	2.3	2	63994	2	1	152		N
NOV 29,88	NOV 28,88	800	800	900	100	2	2.2	2	63995	2	1	41		NH
DEC 1,88	NOV 30,88	700	700	800	2400	2	2.6	2	3	2	1	60		
DEC 2,88	DEC 1,88	700	700	900	100	2	0.6	2	4	2	1	54		
DEC 4,88	DEC 3,88	800	800	1200	2300	2	0.1	2	5	2	1	****	E	
DEC 8,88	DEC 7,88	800	720	100	715	2	0.5	2	6	2	1	49		
DEC 9,88	DEC 8,88	720	720	720	720	2	0.9	2	7	2	1	64		
DEC 10,88	DEC 9,88	720	720	720	1800	2	1.4	2	8	2	1	51		
DEC 11,88	DEC 10,88	730	900	100	100	2	1.1	2	9	2	1	24		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM 803

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L		NITRATE AS N MG/L	
OCT 7,88	OCT 6,88	225.0		15.5		4.26	D	4.46	******	0.0611	D	2.30	<T	0.03
OCT 9,88	OCT 8,88	111.0		22.5	UG	5.81	UG	7.40	******	0.0201		3.75		1.74
OCT 11,88	OCT 10,88	2454.0	LG	3.0	UG	5.20		5.44	******	0.0238		0.95		0.14
OCT 12,88	OCT 11,88	171.0	D	10.0	UG	5.89	UG	6.78	******	0.0492	LG	0.65	<T	0.02
OCT 13,88	OCT 12,88	32.0	LG	2.5		******		5.53	******	0.0241	LG	0.30	<T	0.02
OCT 16,88	OCT 15,88	16.0		29.0		******		4.21	******	0.0861		3.55		0.60
OCT 17,88	OCT 16,88	92.0		20.5		******		4.61	******	0.0514		3.35		0.63
OCT 18,88	OCT 17,88	910.0		20.0		4.17		4.29	******	0.0855		2.50		0.38
OCT 19,88	OCT 18,88	57.0	LG	2.0		******	UG	7.49	******	0.0215	LG	0.50	LG	0.05
OCT 20,88	OCT 19,88	36.0		10.5		******	UG	7.45	******	0.0261		1.90		0.20
OCT 22,88	OCT 21,88	263.0		31.0		3.72		4.17	******	0.0973		2.45		0.71
OCT 24,88	OCT 22,88	446.0		31.0		******		4.18	******	0.0925		2.30		0.79
OCT 25,88	OCT 24,88	1029.0		11.0		4.10		4.65	******	0.0482		1.40	<T	0.01
OCT 26,88	OCT 25,88	260.0		6.0		4.10		5.10	******	0.0306		1.05	LG	0.13
OCT 27,88	OCT 26,88	470.0	LG	4.0	B	5.43	B	7.50	******	0.0183	LG	0.50	LG	0.08
OCT 28,88	OCT 27,88	455.0		36.0		3.47		4.17	******	0.0968		2.40		0.83
NOV 1,88	OCT 31,88	55.0		34.0		******		4.33	******	0.0749		3.05		1.07
NOV 2,88	NOV 1,88	13.0		20.5		******		4.56	******	0.0781		1.80		0.81
NOV 4,88	NOV 3,88	111.0	D	55.5		3.86		3.94	******	0.1600		4.85		1.02
NOV 5,88	NOV 4,88	272.0		42.0		4.03		4.15	******	0.1070		3.55		0.77
NOV 6,88	NOV 5,88	1069.0		12.5	D	4.44		4.45	******	0.0621		1.50		0.18
NOV 7,88	NOV 6,88	182.0		9.0		4.63		4.91	******	0.0331		1.00	<T	0.03
NOV 8,88	NOV 7,88	176.0		20.0		4.37		4.42	******	0.0674		1.85		0.54
NOV 9,88	NOV 8,88	447.0		17.0		******		4.37	******	0.0601		1.60		0.26
NOV 10,88	NOV 9,88	965.0		29.0		******		4.19	******	0.0835		3.00		0.42
NOV 11,88	NOV 10,88	203.0		20.0		******		4.38	******	0.0634		2.45		0.37
NOV 13,88	NOV 12,88	996.0		18.5		4.27		4.33	******	0.0647		1.70		0.36
NOV 14,88	NOV 13,88	32.0	!IS	******		******		4.57	******	0.0504		1.90		0.56
NOV 17,88	NOV 16,88	361.0		23.0		4.38		4.03	******	0.1320		4.65		0.49
NOV 21,88	NOV 20,88	1255.0		14.0		4.45		4.50	******	0.0579		1.85		0.16
NOV 22,88	NOV 21,88	******		******		******		******	******	******		******		******
NOV 27,88	NOV 26,88	225.0		64.5		3.72		3.91	******	0.1610		6.70		1.08
NOV 29,88	NOV 28,88	59.0		10.0		******		5.27	******	0.0236		1.45		0.43
DEC 1,88	NOV 30,88	101.0	!IR	******		4.39		4.71	******	0.0560		2.40		1.36
DEC 2,88	DEC 1,88	21.0	!IS	******		******		5.70	******	0.0195	!IS	******	!IS	******
DEC 4,88	DEC 3,88	******		******		******		******	******	******		******		******
DEC 8,88	DEC 7,88	16.0	!IS	******		******	UG	6.89	******	0.0156	!IS	******	!IS	******
DEC 9,88	DEC 8,88	37.0	!IS	******		******	UG	7.37	******	0.0122	!IS	******	!IS	******
DEC 10,88	DEC 9,88	46.0	!IS	******		******	UG	7.13	******	0.0137	!IS	******	!IS	******
DEC 11,88	DEC 10,88	17.0	!IS	******		******	UG	7.09	******	0.0127	!IS	******	!IS	******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03 PAGE : 12

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L	
OCT 7,88	OCT 6,88		0.30		0.12	D	0.065	<T	0.020		0.025		0.460	D	0.0347
OCT 9,88	OCT 8,88		1.44		0.34		0.270		0.085		0.030		1.950	UG	0.0000
OCT 11,88	OCT 10,88		0.10	<W	0.01	<T	0.015		0.025	<T	0.005		0.286		0.0036
OCT 12,88	OCT 11,88	D	0.66	<W	0.01	D	0.450	U	1.720		0.025		0.186	UG	0.0002
OCT 13,88	OCT 12,88		0.18		0.08		0.050	<T	0.015		0.085		0.200		0.0030
OCT 16,88	OCT 15,88		0.62		0.37		0.075	D	0.035		0.150		0.376		0.0617
OCT 17,88	OCT 16,88		0.94		0.17		0.180		0.080		0.075		0.520		0.0245
OCT 18,88	OCT 17,88		0.24		0.06	D	0.165	D	0.175		0.035		0.306		0.0513
OCT 19,88	OCT 18,88	<T	0.06	<T	0.03	<T	0.010	<T	0.020		0.045		0.320	UG	0.0000
OCT 20,88	OCT 19,88	!IS	******		0.13	!IS	******	!IS	******	!IS	******		1.140	UG	0.0000
OCT 22,88	OCT 21,88		0.22		0.16	<T	0.020	<T	0.020	<T	0.020		0.450		0.0676
OCT 24,88	OCT 22,88		0.12	<T	0.05	<T	0.015		0.025	<T	0.020		0.396		0.0661
OCT 25,88	OCT 24,88	<T	0.06	<T	0.03	<T	0.005	<T	0.015	<T	0.005		0.266		0.0224
OCT 26,88	OCT 25,88	<T	0.04	<W	0.01	<T	0.015	<T	0.025		0.030		0.286		0.0079
OCT 27,88	OCT 26,88	<T	0.02		0.07	<T	0.005	<T	0.010	UG	0.750	B	0.140	B	0.0000
OCT 28,88	OCT 27,88		0.22		0.12		0.025		0.025	<T	0.025		0.396		0.0676
NOV 1,88	OCT 31,88		0.90		0.14		0.155		0.045		0.045		0.436		0.0468
NOV 2,88	NOV 1,88		0.46		0.15		0.080		0.025		0.040		0.450		0.0275
NOV 4,88	NOV 3,88		0.22		0.17		0.030		0.030		0.055		0.630		0.1148
NOV 5,88	NOV 4,88		0.14		0.34		0.030		0.040		0.160		0.440		0.0708
NOV 6,88	NOV 5,88	<T	0.04		0.19	<T	0.020	<T	0.010		0.100		0.220		0.0355
NOV 7,88	NOV 6,88	<T	0.02	<T	0.04	<W	0.005	<W	0.005	<T	0.005		0.296		0.0123
NOV 8,88	NOV 7,88		0.26		0.11		0.025	<T	0.020	<T	0.020		0.336		0.0380
NOV 9,88	NOV 8,88	<T	0.06	<T	0.04	<W	0.005	<T	0.005	<T	0.010		0.196		0.0427
NOV 10,88	NOV 9,88		0.18		0.33		0.035	<T	0.020		0.185		0.240		0.0646
NOV 11,88	NOV 10,88		0.12		0.08	<T	0.025		0.025		0.040		0.396		0.0417
NOV 13,88	NOV 12,88	<T	0.08		0.07	<T	0.010	<T	0.010	<T	0.020		0.176		0.0468
NOV 14,88	NOV 13,88	!IS	******		0.46	!IS	******	!IS	******	!IS	******		0.390		0.0269
NOV 17,88	NOV 16,88		1.02		0.31		0.120		0.050		0.135		0.646		0.0933
NOV 21,88	NOV 20,88	<T	0.08		0.07	<T	0.015	<T	0.005	<T	0.005		0.156		0.0316
NOV 22,88	NOV 21,88		******		******		******		******		******		******		******
NOV 27,88	NOV 26,88	<T	0.04		1.41		0.120		0.080		0.680		0.840		0.1230
NOV 29,88	NOV 28,88		0.28	<W	0.01		0.045		0.030		0.040		0.630		0.0054
DEC 1,88	NOV 30,88		1.16	<W	0.01		0.110		0.055		0.060		0.730		0.0195
DEC 2,88	DEC 1,88		0.42	!IS	******		0.070		0.040		0.100		0.420		0.0020
DEC 4,88	DEC 3,88		******		******		******		******		******		******		******
DEC 8,88	DEC 7,88		0.70	!IS	******		0.150		0.035		0.050		0.166	UG	0.0001
DEC 9,88	DEC 8,88		2.68	!IS	******	UG	0.810		0.050		0.185		0.300	UG	0.0000
DEC 10,88	DEC 9,88		0.98	!IS	******		0.270		0.065		0.150		0.226	UG	0.0001
DEC 11,88	DEC 10,88		0.88	!IS	******		0.265	<T	0.020		0.040		0.090	UG	0.0001

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
DEC 13,88	DEC 12,88	800	720	1000	1400	2	2.0	2	10	2	1	13		
DEC 14,88	DEC 13,88	730	720	730	100	2	****	2	11	2	1	****	Q	
DEC 15,88	DEC 14,88	730	730	900	1500	3	2.3	2	12	2	1	78		
DEC 16,88	DEC 15,88	730	730	800	1400	2	0.7	2	13	2	1	55		
DEC 17,88	DEC 16,88	730	900	900	1300	2	0.2	2	14	2	1	****	E	N
DEC 18,88	DEC 17,88	900	1000	1800	1000	2	2.7	2	15	2	1	63		JHM
DEC 19,88	DEC 18,88	1000	730	1000	100	2	2.1	2	16	2	1	22		
DEC 20,88	DEC 19,88	730	730	100	400	1	0.5	2	17	2	1	187		N
DEC 21,88	DEC 20,88	730	725	900	2400	1	1.7	2	18	2	1	****	E	N
DEC 23,88	DEC 22,88	800	720	100	720	3	12.3	2	19	2	1	92		JC
DEC 25,88	DEC 24,88	800	1000	1200	1000	2	3.3	2	20	2	1	79		JH
DEC 26,88	DEC 25,88	1000	850	900	1800	2	1.4	2	21	2	1	47		N
DEC 27,88	DEC 26,88	850	815	2400	815	3	7.6	2	22	2	1	81		J
DEC 28,88	DEC 27,88	900	715	800	100	3	26.2	2	28	2	1	102	Q	NC
DEC 29,88	DEC 28,88	715	715	1700	100	1	1.5	2	31	2	1	30		N
DEC 30,88	DEC 29,88	715	715	1000	100	2	0.7	2	32	2	1	42		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L		SULPHATE MG/L	NITRATE AS N MG/L
DEC 13,88	DEC 12,88	17.0	!IS ******	******		5.88	******	0.0200	!IS	******	!IS ******
DEC 14,88	DEC 13,88	30.0	!IS ******	******		4.28	******	0.0777	!IS	******	!IS ******
DEC 15,88	DEC 14,88	115.0	!IS ******	4.14		4.39	******	0.0758	!IS	******	!IS ******
DEC 16,88	DEC 15,88	25.0	!IS ******	******	UG	7.30	******	0.0136	!IS	******	!IS ******
DEC 17,88	DEC 16,88	******	******	******		******	******	******		******	******
DEC 18,88	DEC 17,88	110.0	!IS ******	4.34		5.97	******	0.0159	D	5.20	1.60
DEC 19,88	DEC 18,88	30.0	!IS ******	******		4.91	******	0.0306	LG	0.40	0.49
DEC 20,88	DEC 19,88	60.0	!IS ******	******		3.87	******	0.1800	UG	8.75	1.11
DEC 21,88	DEC 20,88	******	******	******		******	******	******		******	******
DEC 23,88	DEC 22,88	729.0	11.0	3.72		4.39	******	0.0603		2.20	0.38
DEC 25,88	DEC 24,88	169.0	9.0	4.25		4.97	******	0.0286		1.05	0.31
DEC 26,88	DEC 25,88	43.0	!IS ******	******		5.83	******	0.0231	!IS	******	!IS ******
DEC 27,88	DEC 26,88	398.0	16.0	3.82		4.50	******	0.0500		1.50	0.24
DEC 28,88	DEC 27,88	1718.0	16.0	******		4.33	******	0.0719		2.05	0.27
DEC 29,88	DEC 28,88	29.0	!IS ******	******	UG	6.86	******	0.0166	!IS	******	!IS ******
DEC 30,88	DEC 29,88	19.0	!IS ******	******	UG	6.82	******	0.0166	!IS	******	!IS ******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
DEC 13,88	DEC 12,88	0.66	!IS ******	0.145	0.055	0.425	LQ 0.026	0.0013
DEC 14,88	DEC 13,88	0.52	!IS ******	0.090	0.035	0.270	0.390	0.0525
DEC 15,88	DEC 14,88	2.14	!IS ******	0.250	0.110	0.265	0.566	0.0407
DEC 16,88	DEC 15,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	0.206	UQ 0.0001
DEC 17,88	DEC 16,88	******	******	******	******	******	******	******
DEC 18,88	DEC 17,88	0.14	0.75	0.030	<T 0.005	<T 0.010	0.146	0.0011
DEC 19,88	DEC 18,88	0.38	0.21	0.035	<T 0.005	0.060	0.110	0.0123
DEC 20,88	DEC 19,88	1.24	0.60	0.135	0.035	0.190	0.496	0.1349
DEC 21,88	DEC 20,88	******	******	******	******	******	******	******
DEC 23,88	DEC 22,88	0.24	<W 0.01	0.055	0.030	0.060	0.250	0.0407
DEC 25,88	DEC 24,88	0.30	<W 0.01	0.035	<T 0.020	0.035	0.276	0.0107
DEC 26,88	DEC 25,88	0.46	!IS ******	0.130	0.050	0.065	0.846	0.0015
DEC 27,88	DEC 26,88	0.18	0.29	0.035	<T 0.020	0.115	0.176	0.0316
DEC 28,88	DEC 27,88	<T 0.04	0.17	<T 0.005	<T 0.010	0.040	0.146	0.0468
DEC 29,88	DEC 28,88	1.14	!IS ******	0.270	<T 0.020	0.105	0.160	UG 0.0001
DEC 30,88	DEC 29,88	1.70	!IS ******	0.230	<T 0.010	0.110	<W 0.006	UG 0.0002

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM #04

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 2,88	JAN 1,88	500 500	900 1100	2	1.7	2	62830	2	1	3		XN
JAN 5,88	JAN 4,88	300 500	300 1000	2	5.8	2	62832	2	1	9	C	N
JAN 7,88	JAN 6,88	500 500	900 1400	2	5.4	2	62834	2	1	11		N
JAN 9,88	JAN 8,88	500 500	**** 300	2	0.5	2	62836	2	1	180	E	N
JAN 13,88	JAN 12,88	500 500	**** 400	2	0.8	2	62838	2	1	115		
JAN 14,88	JAN 13,88	500 500	**** ****	2	0.8	2	62840	2	1	5	E	N
JAN 17,88	JAN 16,88	500 1100	**** 1100	1	2.9	2	62842	2	1	105		
JAN 18,88	JAN 17,88	1100 500	1100 ****	1	10.5	2	62843	2	1	96		
JAN 19,88	JAN 18,88	500 500	500 700	1	0.4	2	62846	2	1	124		N
JAN 20,88	JAN 19,88	500 500	**** 500	1	4.6	2	62848	2	1	69		J
JAN 21,88	JAN 20,88	500 500	**** 100	2	0.2	2	62850	2	1	****	E	N
JAN 22,88	JAN 21,88	500 500	700 1000	2	1.7	2	62852	2	1	26		N
JAN 23,88	JAN 22,88	500 500	**** ****	2	0.2	2	62854	2	1	****	E	N
JAN 24,88	JAN 23,88	500 1100	2300 1000	2	2.9	2	62856	2	1	11		N
JAN 27,88	JAN 26,88	500 500	2100 100	2	1.7	2	62858	2	1	****	E	N
JAN 29,88	JAN 28,88	500 500	**** ****	2	0.8	2	62860	2	1	****	E	N
FEB 1,88	JAN 31,88	500 500	1130 2300	1	10.5	2	62862	2	1	109		
FEB 2,88	FEB 1,88	500 500	1330 1700	3	12.5	2	62864	2	1	44		NC
FEB 4,88	FEB 3,88	500 500	2200 300	2	4.7	2	62866	2	1	47		N
FEB 6,88	FEB 5,88	500 500	**** ****	2	3.1	2	62868	2	1	****	E	N
FEB 7,88	FEB 6,88	500 500	**** ****	3	2.2	2	62870	2	1	****	E	N
FEB 8,88	FEB 7,88	500 500	1300 1700	2	4.6	2	62872	2	1	4		N
FEB 10,88	FEB 9,88	500 500	400 1000	2	2.9	2	62874	2	1	51		
FEB 12,88	FEB 11,88	500 500	1300 500	2	12.7	2	62876	2	1	13		N
FEB 13,88	FEB 12,88	500 500	500 800	2	4.9	2	62878	2	1	13		N
FEB 14,88	FEB 13,88	500 500	**** ****	2	0.1	2	62880	2	1	****	E	N
FEB 15,88	FEB 14,88	500 500	**** 500	3	4.4	2	62882	2	1	82		C
FEB 17,88	FEB 16,88	500 500	**** ****	2	2.2	2	62884	2	1	73		
FEB 20,88	FEB 19,88	500 500	1400 2200	3	14.1	2	62886	2	1	91		
FEB 21,88	FEB 20,88	800 500	800 900	2	7.2	2	62888	2	1	12		NC
FEB 23,88	FEB 22,88	500 500	1800 2000	1	0.4	2	62890	2	1	81		
FEB 24,88	FEB 23,88	500 500	1600 1730	2	1.1	2	62892	2	1	18	C	NHM
FEB 25,88	FEB 24,88	500 500	1600 2000	2	2.7	2	62894	2	1	39		N
FEB 27,88	FEB 26,88	500 500	1600 2000	2	1.3	2	62896	2	1	****	E	N
FEB 29,88	FEB 28,88	500 500	2200 300	2	0.8	2	62898	2	1	37		NH
MAR 2,88	MAR 1,88	500 500	**** ****	2	0.4	2	62900	2	1	****	E	N
MAR 10,88	MAR 9,88	500 800	1700 2000	3	1.7	2	62902	2	1	116		
MAR 13,88	MAR 12,88	800 1100	900 1600	3	6.8	2	62904	2	1	89		
MAR 14,88	MAR 13,88	1100 500	2200 400	2	1.6	2	62906	2	1	46		N
MAR 15,88	MAR 14,88	500 500	**** 400	2	1.4	2	62908	2	1	54		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM 804

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 2,88	JAN 1,88	4.0	******	******	******	******	******	******	******
JAN 5,88	JAN 4,88	37.0	!IS ******	******	UG 7.64	******	0.0128	1.25	0.73
JAN 7,88	JAN 6,88	39.0	13.0	******	!IS ******	******	!IS ******	LG 0.50	LG 0.10
JAN 9,88	JAN 8,88	58.0	******	******	******	******	******	******	******
JAN 13,88	JAN 12,88	59.0	65.5	******	4.11	******	0.1250	7.70	2.14
JAN 14,88	JAN 13,88	3.0	******	******	******	******	******	******	******
JAN 17,88	JAN 16,88	196.0	23.5	******	4.33	******	0.0710	2.00	0.56
JAN 18,88	JAN 17,88	647.0	29.0	4.08	4.15	******	0.0953	1.90	0.60
JAN 19,88	JAN 18,88	32.0	!IS ******	******	4.11	******	0.1520	!IS ******	!IS ******
JAN 20,88	JAN 19,88	205.0	34.5	3.77	4.21	******	0.1100	2.90	0.80
JAN 21,88	JAN 20,88	******	******	******	******	******	******	******	******
JAN 22,88	JAN 21,88	29.0	!IS ******	******	4.86	******	0.0436	1.79	0.54
JAN 23,88	JAN 22,88	******	******	******	******	******	******	******	******
JAN 24,88	JAN 23,88	21.0	!IS ******	******	D 6.41	******	0.0198	!IS ******	!IS ******
JAN 27,88	JAN 26,88	******	******	******	******	******	******	******	******
JAN 29,88	JAN 28,88	******	******	******	******	******	******	******	******
FEB 1,88	JAN 31,88	740.0	20.0	4.39	4.48	******	0.0603	2.50	0.26
FEB 2,88	FEB 1,88	359.0	12.5	4.80	5.04	******	0.0347	1.70	0.18
FEB 4,88	FEB 3,88	143.0	11.0	4.69	4.81	******	0.0333	LG 0.40	0.30
FEB 6,88	FEB 5,88	******	******	******	******	******	******	******	******
FEB 7,88	FEB 6,88	******	******	******	******	******	******	******	******
FEB 8,88	FEB 7,88	14.0	7.0	******	5.35	******	0.0234	LG 0.45	0.31
FEB 10,88	FEB 9,88	95.0	37.0	4.15	4.20	******	0.0920	0.55	1.19
FEB 12,88	FEB 11,88	110.0	46.5	4.05	4.10	******	0.1160	1.85	1.17
FEB 13,88	FEB 12,88	41.0	40.0	******	4.19	******	0.0923	3.05	0.80
FEB 14,88	FEB 13,88	******	******	******	******	******	******	******	******
FEB 15,88	FEB 14,88	232.0	63.5	4.07	4.10	******	0.1080	3.35	0.77
FEB 17,88	FEB 16,88	104.0	38.0	4.10	4.16	******	0.1010	3.10	0.80
FEB 20,88	FEB 19,88	826.0	26.0	4.36	4.38	******	0.0668	1.40	0.52
FEB 21,88	FEB 20,88	57.0	18.0	******	4.81	******	0.0418	1.45	0.43
FEB 23,88	FEB 22,88	21.0	25.0	******	UG 7.11	******	0.0201	3.00	1.09
FEB 24,88	FEB 23,88	13.0	LG 5.0	******	UG 6.94	******	0.0159	0.65	0.26
FEB 25,88	FEB 24,88	69.0	8.0	******	6.46	******	0.0170	0.75	0.51
FEB 27,88	FEB 26,88	******	!RE ******	******	!RE ******	******	!RE ******	!RE ******	!RE ******
FEB 29,88	FEB 28,88	19.0	12.0	******	UG 6.89	******	0.0176	2.25	0.57
MAR 2,88	MAR 1,88	******	******	******	******	******	******	******	******
MAR 10,88	MAR 9,88	127.0	24.0	4.38	4.50	******	0.0567	2.75	0.61
MAR 13,88	MAR 12,88	391.0	28.0	4.39	4.48	******	0.0623	3.10	0.61
MAR 14,88	MAR 13,88	48.0	26.5	******	4.46	******	0.0568	2.30	0.51
MAR 15,88	MAR 14,88	49.0	!IS ******	******	6.33	******	0.0175	!IS ******	!IS ******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM #04

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 2,88	JAN 1,88	******	******	******	******	******	******	******
JAN 5,88	JAN 4,88	!IS ******	1.00	!IS ******	!IS ******	!IS ******	0.165	UG 0.0000
JAN 7,88	JAN 6,88	!IS ******	0.34	!IS ******	!IS ******	!IS ******	0.165	!IS ******
JAN 9,88	JAN 8,88	******	******	******	******	******	******	******
JAN 13,88	JAN 12,88	1.78	0.75	0.355	0.065	0.270	1.840	0.0776
JAN 14,88	JAN 13,88	******	******	******	******	******	******	******
JAN 17,88	JAN 16,88	0.26	0.20	0.045	<T 0.015	0.080	0.310	0.0468
JAN 18,88	JAN 17,88	<T 0.04	0.17	<T 0.010	<T 0.015	0.045	0.200	0.0708
JAN 19,88	JAN 18,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	1.210	0.0776
JAN 20,88	JAN 19,88	0.26	0.19	0.030	<T 0.015	0.045	0.300	0.0617
JAN 21,88	JAN 20,88	******	******	******	******	******	******	******
JAN 22,88	JAN 21,88	!IS ******	0.18	!IS ******	!IS ******	!IS ******	0.340	0.0138
JAN 23,88	JAN 22,88	******	******	******	******	******	******	******
JAN 24,88	JAN 23,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	0.250	D 0.0004
JAN 27,88	JAN 26,88	******	******	******	******	******	******	******
JAN 29,88	JAN 28,88	******	******	******	******	******	******	******
FEB 1,88	JAN 31,88	0.14	0.55	0.045	<T 0.015	0.315	0.330	0.0331
FEB 2,88	FEB 1,88	<T 0.04	<T 0.03	<T 0.010	<W 0.005	0.030	0.420	0.0091
FEB 4,88	FEB 3,88	<T 0.06	0.13	<T 0.015	<W 0.005	0.030	0.120	0.0155
FEB 6,88	FEB 5,88	******	******	******	******	******	******	******
FEB 7,88	FEB 6,88	******	******	******	******	******	******	******
FEB 8,88	FEB 7,88	!IS ******	0.19	!IS ******	!IS ******	!IS ******	0.200	0.0045
FEB 10,88	FEB 9,88	0.20	0.44	0.040	<T 0.005	0.125	0.160	0.0631
FEB 12,88	FEB 11,88	<T 0.10	0.33	<T 0.025	<T 0.010	0.095	0.330	0.0794
FEB 13,88	FEB 12,88	!IS ******	0.99	!IS ******	!IS ******	!IS ******	0.450	0.0646
FEB 14,88	FEB 13,88	******	******	******	******	******	******	******
FEB 15,88	FEB 14,88	0.28	0.29	0.035	<T 0.020	0.175	0.390	0.0794
FEB 17,88	FEB 16,88	0.14	0.17	0.025	<T 0.020	0.100	0.550	0.0692
FEB 20,88	FEB 19,88	<T 0.06	0.10	<T 0.010	<T 0.005	0.045	0.280	0.0417
FEB 21,88	FEB 20,88	0.12	0.17	0.030	<T 0.015	0.075	0.420	0.0155
FEB 23,88	FEB 22,88	!IS ******	0.55	!IS ******	!IS ******	!IS ******	1.060	UG 0.0001
FEB 24,88	FEB 23,88	0.50	0.27	0.105	<W 0.005	0.110	0.200	UG 0.0001
FEB 25,88	FEB 24,88	0.78	0.39	0.150	<T 0.005	0.140	0.300	0.0003
FEB 27,88	FEB 26,88	!RE ******	!RE ******	!RE ******	!RE ******	!RE ******	!RE ******	!RE ******
FEB 29,88	FEB 28,88	0.86	0.22	0.210	<T 0.015	0.210	0.550	UG 0.0001
MAR 2,88	MAR 1,88	******	******	******	******	******	******	******
MAR 10,88	MAR 9,88	0.32	0.15	0.055	<T 0.015	0.090	0.670	0.0316
MAR 13,88	MAR 12,88	0.56	0.24	0.100	<T 0.020	0.095	0.550	0.0331
MAR 14,88	MAR 13,88	0.20	0.11	0.050	<W 0.005	0.055	0.540	0.0347
MAR 15,88	MAR 14,88	0.24	!IS ******	0.055	<T 0.020	0.130	0.250	0.0005

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM #04

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
MAR 19,88	MAR 18,88	500	500	2000	500	2	1.7	2	62910	2	1	49		NH
MAR 20,88	MAR 19,88	500	500	1900	####	2	3.4	2	62912	2	1	58		J
MAR 24,88	MAR 23,88	500	500	2300	200	1	3.5	2	62914	2	1	98	CD	J
MAR 25,88	MAR 24,88	500	500	2200	100	1	0.3	2	62916	2	1	114		
MAR 26,88	MAR 25,88	500	500	1200	1600	1	9.1	2	62918	2	1	108	CD	H
MAR 27,88	MAR 26,88	500	1100	####	####	3	2.2	2	62920	2	1	96	C	J
MAR 29,88	MAR 28,88	500	500	####	200	1	0.6	2	62922	2	1	156		N
APR 1,88	MAR 30,88	500	1500	####	####	1	0.1	1	62924	2	1	####	E	NY2
APR 2,88	APR 1,88	1500	1430	1200	1430	1	0.7	1	62926	2	1	75		
APR 3,88	APR 2,88	1430	1100	1430	1000	1	28.0	1	62928	2	1	85		
APR 4,88	APR 3,88	1100	930	2200	700	1	5.2	1	62930	2	1	128		N
APR 5,88	APR 4,88	930	900	700	800	1	0.1	1	62932	2	1	####	E	N
APR 8,88	APR 7,88	500	500	1900	####	1	0.7	1	62934	2	1	127		N
APR 14,88	APR 13,88	930	930	400	930	1	3.7	1	62936	2	1	99	BAC	JH
APR 15,88	APR 14,88	930	930	####	####	2	7.1	1	62938	2	1	117		H
APR 18,88	APR 17,88	900	900	####	400	3	6.4	1	62940	2	1	121	ABC	NJ
APR 20,88	APR 19,88	900	900	####	400	1	0.3	1	62942	2	1	124	Q	N
APR 23,88	APR 22,88	600	600	300	600	1	5.8	1	62944	2	1	239		NJHM
APR 28,88	APR 27,88	600	600	1300	1500	1	6.0	1	62950	2	1	96	B	J
APR 29,88	APR 28,88	600	500	2200	200	1	0.7	1	62952	2	1	49		N
APR 30,88	APR 29,88	500	530	####	####	1	5.6	1	62955	2	1	93		X
MAY 10,88	MAY 9,88	600	600	1800	2100	1	13.8	1	62956	2	1	92	A	J
MAY 11,88	MAY 10,88	600	600	1000	1400	1	1.3	1	62958	2	1	88		
MAY 16,88	MAY 15,88	530	530	700	1230	1	21.1	1	62960	2	1	104		NJH
MAY 17,88	MAY 16,88	530	530	1330	1500	1	5.1	1	62962	2	1	88	C	J
MAY 19,88	MAY 18,88	530	530	####	####	1	2.5	1	62964	2	1	84		HCM
MAY 20,88	MAY 19,88	530	530	####	####	1	1.7	1	62966	2	1	39		N
MAY 21,88	MAY 20,88	530	530	####	400	1	0.8	1	62968	2	1	113		
MAY 22,88	MAY 21,88	530	530	1030	1900	1	12.8	1	62970	2	1	112		
MAY 27,88	MAY 26,88	530	530	430	500	1	0.4	1	62972	2	1	136		N
JUN 4,88	JUN 3,88	530	530	1200	1430	1	1.1	1	62974	2	1	63		
JUN 9,88	JUN 8,88	530	530	1300	1500	1	0.9	1	62976	2	1	74		
JUN 16,88	JUN 15,88	530	530	1900	300	1	4.4	1	62978	2	1	103	A	J
JUN 23,88	JUN 22,88	530	530	1645	1650	1	0.3	1	62982	2	1	57	E	
JUN 29,88	JUN 28,88	530	530	1800	1810	1	0.4	1	62984	2	1	97	A	
JUL 11,88	JUL 10,88	530	530	2230	####	1	1.2	1	62986	2	1	75		T
JUL 12,88	JUL 11,88	530	530	730	900	1	10.7	1	62988	2	1	124		NJ
JUL 16,88	JUL 15,88	600	600	200	530	1	18.3	1	62992	2	1	101		
JUL 17,88	JUL 16,88	600	1200	400	730	1	26.5	1	62993	2	1	103		J
JUL 21,88	JUL 20,88	530	530	400	500	1	0.3	1	62995	2	1	####	E	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM #04 PAGE : 5

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
MAR 19,88	MAR 18,88	54.0	25.0	******	5.63	******	0.0235	2.55	1.04
MAR 20,88	MAR 19,88	128.0	10.5	4.59	6.10	******	0.0174	0.75	0.49
MAR 24,88	MAR 23,88	222.0	47.5	UG 5.30	UG 6.98	******	0.0240	7.25	1.82
MAR 25,88	MAR 24,88	22.0	27.0	******	4.43	******	0.0640	3.55	0.43
MAR 26,88	MAR 25,88	634.0	16.0	4.69	4.97	******	0.0315	2.30	0.39
MAR 27,88	MAR 26,88	136.0	21.0	UG 5.59	6.56	******	0.0254	3.65	0.67
MAR 29,88	MAR 28,88	60.0	48.5	******	4.28	******	0.0889	UG 8.60	0.70
APR 1,88	MAR 30,88	******	******	******	******	******	******	******	******
APR 2,88	APR 1,88	34.0	67.0	******	3.88	******	0.1750	7.95	1.05
APR 3,88	APR 2,88	1530.0	24.5	4.08	4.37	******	0.0652	2.40	0.27
APR 4,88	APR 3,88	427.0	17.5	4.22	4.53	******	0.0503	1.70	0.22
APR 5,88	APR 4,88	******	******	******	******	******	******	******	******
APR 8,88	APR 7,88	57.0	76.0	******	3.91	******	D 0.1660	7.15	2.40
APR 14,88	APR 13,88	237.0	70.5	UG 6.00	UG 7.07	******	0.0298	UG 9.25	UG 3.20
APR 15,88	APR 14,88	536.0	11.5	4.73	5.11	******	0.0349	2.00	0.42
APR 18,88	APR 17,88	497.0	28.5	UG 6.62	UG 7.35	******	0.0223	3.40	0.76
APR 20,88	APR 19,88	24.0	11.0	******	UG 7.13	******	0.0200	1.50	LG 0.10
APR 23,88	APR 22,88	889.0	13.5	3.55	UG 7.06	******	0.0205	1.65	0.39
APR 28,88	APR 27,88	370.0	40.5	3.76	4.61	******	0.0641	6.40	1.11
APR 29,88	APR 28,88	22.0	19.5	******	4.87	******	0.0404	2.50	0.77
APR 30,88	APR 29,88	336.0	******	******	******	******	******	******	******
MAY 10,88	MAY 9,88	818.0	22.5	B 5.65	UG 7.11	******	0.0225	3.80	0.52
MAY 11,88	MAY 10,88	74.0	54.5	******	UG 7.14	******	0.0231	9.00	1.72
MAY 16,88	MAY 15,88	1420.0	27.0	D 4.09	D 5.38	******	D 0.0313	5.65	0.81
MAY 17,88	MAY 16,88	289.0	18.5	UG 6.04	UG 7.19	******	0.0177	1.90	0.69
MAY 19,88	MAY 18,88	135.0	12.5	******	UG 7.53	******	0.0092	0.80	0.30
MAY 20,88	MAY 19,88	43.0	22.0	******	4.64	******	0.0490	4.95	0.39
MAY 21,88	MAY 20,88	58.0	34.0	******	!IS ******	******	!IS ******	4.50	1.40
MAY 22,88	MAY 21,88	920.0	12.5	******	5.00	******	0.0290	2.00	0.27
MAY 27,88	MAY 26,88	35.0	42.0	******	UG 7.25	******	0.0207	6.85	1.57
JUN 4,88	JUN 3,88	45.0	44.0	******	UG 7.61	******	0.0154	6.25	0.69
JUN 9,88	JUN 8,88	43.0	!IS ******	******	UG 7.21	******	0.0165	!IS ******	!IS ******
JUN 16,88	JUN 15,88	292.0	37.0	3.88	6.69	******	0.0222	8.30	1.04
JUN 23,88	JUN 22,88	11.0	******	******	******	******	******	******	******
JUN 29,88	JUN 28,88	25.0	8.5	******	UG 7.08	******	0.0146	LG 0.75	LG 0.12
JUL 11,88	JUL 10,88	58.0	> 100.0	******	3.39	******	0.4040	UG 18.00	2.20
JUL 12,88	JUL 11,88	857.0	20.5	3.61	5.08	******	0.0279	3.85	0.56
JUL 16,88	JUL 15,88	1194.0	55.5	******	3.98	******	0.1180	5.70	1.00
JUL 17,88	JUL 16,88	1753.0	18.0	3.90	4.50	******	0.0476	1.90	0.29
JUL 21,88	JUL 20,88	******	******	******	******	******	******	******	******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM #04 PAGE : 6

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
MAR 19,88	MAR 18,88	0.88	0.61	0.225	0.035	0.220	0.870	0.0023
MAR 20,88	MAR 19,88	!IS ******	0.42	!IS ******	!IS ******	!IS ******	!IS ******	0.0008
MAR 24,88	MAR 23,88	2.24	0.76	0.460	0.115	0.450	2.300 UG	0.0001
MAR 25,88	MAR 24,88	!IS ******	0.27	!IS ******	!IS ******	!IS ******	0.460	0.0372
MAR 26,88	MAR 25,88	0.64	0.16	0.070	0.035	0.190	0.500	0.0107
MAR 27,88	MAR 26,88	0.72	0.19	0.140	0.195	0.095	1.230	0.0003
MAR 29,88	MAR 28,88	1.34	0.26	0.225	0.070	0.250	1.230	0.0525
APR 1,88	MAR 30,88	******	******	******	******	******	******	******
APR 2,88	APR 1,88	!IS ******	0.45	!IS ******	!IS ******	!IS ******	0.610	0.1318
APR 3,88	APR 2,88	0.18	0.17	0.030	0.025	0.105	0.220	0.0427
APR 4,88	APR 3,88	0.16	<T 0.03	<T 0.015	<T 0.025	0.035	0.250	0.0295
APR 5,88	APR 4,88	******	******	******	******	******	******	******
APR 8,88	APR 7,88	1.36	0.42	0.225	0.100	0.140	!IS ******	0.1230
APR 14,88	APR 13,88	UG 4.30	0.88	UG 0.910	0.260	0.265	UG 3.600	UG 0.0001
APR 15,88	APR 14,88	0.36	0.07	0.090	<T 0.015	0.110	0.700	0.0078
APR 18,88	APR 17,88	1.82	0.15	0.420	0.060	0.115	1.390	UG 0.0000
APR 20,88	APR 19,88	!IS ******	0.05	!IS ******	!IS ******	!IS ******	!IS ******	UG 0.0001
APR 23,88	APR 22,88	0.58	0.07	0.110	0.055	<W 0.005	0.680	UG 0.0001
APR 28,88	APR 27,88	1.04	0.28	0.230	0.050	0.040	1.690	0.0245
APR 29,88	APR 28,88	0.54	0.08	0.130	<T 0.015	0.030	0.860	0.0135
APR 30,88	APR 29,88	******	******	******	******	******	******	******
MAY 10,88	MAY 9,88	D 1.52	0.21	D 0.385	0.110	0.060	0.700	UG 0.0001
MAY 11,88	MAY 10,88	!IS ******	0.43	!IS ******	!IS ******	!IS ******	UG 3.900	UG 0.0001
MAY 16,88	MAY 15,88	1.28	0.20	D 0.260	0.100	0.050	1.150	D 0.0042
MAY 17,88	MAY 16,88	1.06	0.12	0.235	0.180	0.070	0.825	UG 0.0001
MAY 19,88	MAY 18,88	0.92	0.08	0.195	0.060	0.040	0.486	UG 0.0000
MAY 20,88	MAY 19,88	0.22	D 0.21	0.050	<T 0.020	0.025	1.320	0.0229
MAY 21,88	MAY 20,88	!IS ******	0.16	!IS ******	!IS ******	!IS ******	1.540	!IS ******
MAY 22,88	MAY 21,88	<W 0.02	<T 0.05	<W 0.005	<W 0.005	<W 0.005	0.650	0.0100
MAY 27,88	MAY 26,88	!IS ******	0.27	!IS ******	!IS ******	!IS ******	2.220	UG 0.0001
JUN 4,88	JUN 3,88	3.16	0.41	0.820	UG 0.520	UG 0.230	1.580	UG 0.0000
JUN 9,88	JUN 8,88	1.18	!IS ******	0.285	0.045	0.040	1.560	UG 0.0001
JUN 16,88	JUN 15,88	2.22	0.30	0.540	0.130	0.165	1.530	0.0002
JUN 23,88	JUN 22,88	******	******	******	******	******	******	******
JUN 29,88	JUN 28,88	!IS ******	0.13	!IS ******	!IS ******	!IS ******	0.338	UG 0.0001
JUL 11,88	JUL 10,88	!IS ******	0.58	!IS ******	!IS ******	!IS ******	!IS ******	0.4074
JUL 12,88	JUL 11,88	0.60	0.13	0.140	0.050	0.030	1.010	0.0083
JUL 16,88	JUL 15,88	0.58	0.26	0.140	0.055	0.120	0.718	0.1047
JUL 17,88	JUL 16,88	<T 0.10	0.08	0.025	<T 0.010	0.035	0.298	0.0316
JUL 21,88	JUL 20,88	******	******	******	******	******	******	******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM #04 PAGE : 7

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JUL 22,88	JUL 21,88	530	530	1630	1900	1	2.3	1	62997	2	1	84		J
JUL 23,88	JUL 22,88	530	530	1700	2000	1	7.1	1	62999	2	1	93		J
JUL 24,88	JUL 23,88	530	530	****	****	1	6.0	1	70001	2	1	93		J
JUL 25,88	JUL 24,88	530	530	1200	300	1	2.7	1	70003	2	1	83		JH
JUL 26,88	JUL 25,88	530	530	1830	1900	1	0.2	1	70005	2	1	****	E	N
AUG 2,88	JUL 28,88	530	1210	****	****	1	57.2	1	70007	2	1	80	Q	JZ
AUG 5,88	AUG 4,88	530	530	1550	2000	1	16.2	1	70009	2	1	106	A	
AUG 6,88	AUG 5,88	530	930	1900	2300	1	5.8	1	70011	2	1	91		C
AUG 10,88	AUG 9,88	530	530	1730	2000	1	4.3	1	70013	2	1	49		NJ
AUG 12,88	AUG 11,88	530	530	1300	1500	1	8.8	1	70015	2	1	103		J
AUG 14,88	AUG 13,88	530	530	1700	2000	1	3.1	1	70017	2	1	83		
AUG 24,88	AUG 23,88	400	400	1600	1800	1	2.7	1	70019	2	1	111		TC
AUG 25,88	AUG 24,88	400	400	1100	1300	1	14.5	1	70021	2	1	104		NJ
AUG 26,88	AUG 25,88	400	400	800	900	1	0.7	1	70023	2	1	113		HM
AUG 27,88	AUG 26,88	400	1130	2300	200	1	1.5	1	70025	2	1	91		H
SEP 3,88	SEP 2,88	700	730	****	730	1	44.9	1	70027	2	1	102		
SEP 4,88	SEP 3,88	730	630	****	630	1	12.0	1	70029	2	1	98		
SEP 5,88	SEP 4,88	630	800	630	900	1	5.9	1	70031	2	1	79		
SEP 13,88	SEP 12,88	530	530	130	530	1	4.8	1	70034	2	1	87		J
SEP 17,88	SEP 16,88	530	530	****	400	1	3.5	1	70036	2	1	102		
SEP 18,88	SEP 17,88	530	800	****	400	1	1.2	1	70038	2	1	61		
SEP 19,88	SEP 18,88	800	530	****	300	1	1.8	1	70040	2	1	84		
SEP 20,88	SEP 19,88	530	700	****	400	1	3.5	1	70042	2	1	92	AB	HCM
SEP 21,88	SEP 20,88	700	530	****	500	1	1.8	2	70044	2	1	71		H
SEP 22,88	SEP 21,88	530	530	900	930	1	0.7	1	70046	2	1	35	A	
SEP 23,88	SEP 22,88	530	530	100	400	1	9.9	1	70048	2	1	102		J
SEP 24,88	SEP 23,88	530	530	****	****	1	0.9	1	70050	2	1	43		
SEP 28,88	SEP 27,88	530	530	1900	****	1	5.1	1	63960	2	1	92		C
OCT 1,88	SEP 30,88	530	700	****	500	1	3.0	1	70053	2	1	85	A	HM
OCT 2,88	OCT 1,88	530	600	****	600	1	9.2	1	70055	2	1	94		C
OCT 3,88	OCT 2,88	600	530	600	1300	1	10.6	1	70057	2	1	106	C	C
OCT 5,88	OCT 4,88	530	530	1300	1400	1	0.9	1	70059	2	1	74		
OCT 6,88	OCT 5,88	530	530	****	****	1	0.3	1	70061	2	1	****	E	N
OCT 7,88	OCT 6,88	530	530	1500	1630	1	2.4	1	70063	2	1	79		J
OCT 8,88	OCT 7,88	530	530	1000	1300	1	2.0	1	70065	2	1	60		HM
OCT 9,88	OCT 8,88	530	530	****	****	1	1.1	1	70067	2	1	****	E	N
OCT 11,88	OCT 10,88	530	530	2000	2400	1	43.0	1	70069	2	1	104	C	NJHM
OCT 12,88	OCT 11,88	530	530	2000	****	1	2.6	1	70071	2	1	86	A	
OCT 17,88	OCT 16,88	530	530	1930	2130	1	1.6	1	70073	2	1	74		H
OCT 18,88	OCT 17,88	530	530	2200	400	1	13.0	1	70075	2	1	106		HM

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM #04

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L		SULPHATE MG/L		NITRATE AS N MG/L
JUL 22,88	JUL 21,88	124.0	30.0	UG	6.26	UG	7.23		******		0.0204		3.70		1.06
JUL 23,88	JUL 22,88	427.0	18.0	UG	5.42	UG	6.89		******		0.0167		2.45		0.63
JUL 24,88	JUL 23,88	361.0	44.0		4.31		4.02		******		0.1110		3.05		0.92
JUL 25,88	JUL 24,88	145.0	16.0		3.67		5.23		******		0.0276		2.35		0.52
JUL 26,88	JUL 25,88	******	******		******		******		******		******		******		******
AUG 2,88	JUL 28,88	2937.0	33.5		3.77		4.16		******		0.0850		3.95		0.43
AUG 5,88	AUG 4,88	1103.0	80.5		3.57		3.81		******		0.1920		9.75		0.73
AUG 6,88	AUG 5,88	340.0	63.5		3.74		4.06		******		0.1140		4.10		0.59
AUG 10,88	AUG 9,88	136.0	72.5		3.58		3.95		******		0.1400		9.75		1.52
AUG 12,88	AUG 11,88	584.0	57.5		3.55		3.93		******		0.1430		6.20		0.78
AUG 14,88	AUG 13,88	166.0	63.0		3.49		3.84		******		0.1630		7.20		0.88
AUG 24,88	AUG 23,88	193.0	> 100.0	LG	3.13		3.38		******		0.3960		15.60		2.34
AUG 25,88	AUG 24,88	970.0	13.0		4.05		4.72		******		0.0378		2.00		0.30
AUG 26,88	AUG 25,88	51.0	6.5		******		6.52		******		0.0190		1.20		0.21
AUG 27,88	AUG 26,88	88.0	84.0		******		3.76		******		0.2010		9.35		1.95
SEP 3,88	SEP 2,88	2951.0	40.5		3.89		4.06		******		0.1170		4.60		0.44
SEP 4,88	SEP 3,88	761.0	55.0		******		3.92		******		0.1510		5.30		0.70
SEP 5,88	SEP 4,88	299.0	21.5		4.12		4.28		******		0.0723		2.90		0.28
SEP 13,88	SEP 12,88	270.0	29.0		3.81		4.31		******		0.0757		4.30		0.62
SEP 17,88	SEP 16,88	229.0	75.0		3.59		3.83		******		0.2160		10.90		1.13
SEP 18,88	SEP 17,88	47.0	71.5		******	!IS	******		******	!IS	******		10.20		2.30
SEP 19,88	SEP 18,88	97.0	34.5		******		4.86		******		0.0447		6.70		1.26
SEP 20,88	SEP 19,88	208.0	37.0		3.89		4.17		******		0.1190		6.95		0.76
SEP 21,88	SEP 20,88	83.0	18.0		******	UG	7.05		******		0.0225		4.40		0.51
SEP 22,88	SEP 21,88	16.0	LG 3.0		******	!IR	******		******	!IR	******	LG	0.70	<T	0.04
SEP 23,88	SEP 22,88	649.0	12.0		4.17		4.61		******		0.0492		1.40		0.21
SEP 24,88	SEP 23,88	25.0	16.5		******	UG	7.15		******		0.0225		2.40		0.67
SEP 28,88	SEP 27,88	302.0	21.5		4.68		4.79		******		0.0425		6.00		0.94
OCT 1,88	SEP 30,88	165.0	33.5		4.29		4.37		******		0.0717		7.40	LG	0.06
OCT 2,88	OCT 1,88	557.0	12.5		4.44		4.35		******		0.0655		1.95		0.37
OCT 3,88	OCT 2,88	721.0	9.5		4.43		4.48		******		0.0498		1.65	LG	0.12
OCT 5,88	OCT 4,88	43.0	31.0		******		3.80		******	D	0.2040		7.85	<T	0.03
OCT 6,88	OCT 5,88	******	******		******		******		******		******		******		******
OCT 7,88	OCT 6,88	122.0	15.0	UG	6.34	UG	7.30		******		0.0267		4.90	<W	0.01
OCT 8,88	OCT 7,88	78.0	12.5		******		5.35		******		0.0285		2.75	<T	0.01
OCT 9,88	OCT 8,88	******	******		******		******		******		******		******		******
OCT 11,88	OCT 10,88	2875.0	LG 4.0	UG	5.18		5.76		******		0.0229		1.15	<W	0.01
OCT 12,88	OCT 11,88	144.0	LG 4.5	UG	6.10		6.70		******		0.0218	LG	0.80	<T	0.03
OCT 17,88	OCT 16,88	76.0	D 38.0		******	UG	6.88		******		0.0254		7.15		1.07
OCT 18,88	OCT 17,88	887.0	23.0		4.18		4.31		******		0.0759		2.60		0.42

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM #04 PAGE : 9

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JUL 22,88	JUL 21,88	1.64	0.25	0.305	0.070	0.045	1.650	UG 0.0001
JUL 23,88	JUL 22,88	0.68	0.11	0.180	0.045	<T 0.015	1.180	UG 0.0001
JUL 24,88	JUL 23,88	0.14	0.19	0.025	<T 0.020	0.050	0.358	0.0955
JUL 25,88	JUL 24,88	0.18	0.08	0.055	0.045	<T 0.015	1.000	0.0059
JUL 26,88	JUL 25,88	******	******	******	******	******	******	******
AUG 2,88	JUL 28,88	0.26	0.09	0.040	<T 0.015	<T 0.015	0.488	0.0692
AUG 5,88	AUG 4,88	0.48	0.17	0.100	0.030	0.030	0.970	0.1549
AUG 6,88	AUG 5,88	0.24	0.08	0.045	0.030	0.030	0.376	0.0871
AUG 10,88	AUG 9,88	D 2.10	0.34	D 0.350	0.055	0.075	0.926	0.1122
AUG 12,88	AUG 11,88	0.54	0.18	0.105	0.030	0.030	0.546	0.1175
AUG 14,88	AUG 13,88	0.44	0.33	0.070	0.045	0.110	0.610	0.1445
AUG 24,88	AUG 23,88	0.48	0.69	0.115	0.060	0.030	1.800	0.4169
AUG 25,88	AUG 24,88	0.18	0.07	0.040	0.035	0.040	0.340	0.0191
AUG 26,88	AUG 25,88	0.26	0.07	0.085	0.045	0.030	0.316	0.0003
AUG 27,88	AUG 26,88	1.40	0.46	0.280	0.180	0.045	1.770	0.1738
SEP 3,88	SEP 2,88	0.20	0.06	0.040	<T 0.020	<T 0.010	0.546	0.0871
SEP 4,88	SEP 3,88	<W 0.02	0.68	<T 0.005	<T 0.020	<T 0.010	0.656	0.1202
SEP 5,88	SEP 4,88	<W 0.02	<T 0.05	<T 0.010	<T 0.015	<T 0.005	0.450	0.0525
SEP 13,88	SEP 12,88	0.32	0.12	0.065	0.035	0.035	0.816	0.0490
SEP 17,88	SEP 16,88	1.06	0.26	D 0.285	0.050	0.055	1.290	0.1479
SEP 18,88	SEP 17,88	1.12	0.31	0.210	0.170	0.115	UG 3.350	!IS ******
SEP 19,88	SEP 18,88	0.80	0.20	0.165	0.110	0.045	2.280	0.0138
SEP 20,88	SEP 19,88	0.46	0.34	0.105	U 2.400	0.100	D 1.220	0.0676
SEP 21,88	SEP 20,88	0.26	0.15	0.045	0.040	0.025	1.830	UG 0.0001
SEP 22,88	SEP 21,88	<T 0.06	<T 0.02	<T 0.010	0.040	0.030	0.356	!IR ******
SEP 23,88	SEP 22,88	0.10	<T 0.02	<T 0.015	<T 0.005	<T 0.015	0.260	0.0245
SEP 24,88	SEP 23,88	0.24	0.09	0.050	0.045	0.040	1.840	UG 0.0001
SEP 28,88	SEP 27,88	1.50	0.19	0.290	0.055	0.040	1.110	0.0162
OCT 1,88	SEP 30,88	1.28	0.35	0.325	0.085	0.095	U 1.660	0.0427
OCT 2,88	OCT 1,88	<T 0.10	0.08	<T 0.020	<T 0.015	0.035	0.390	0.0447
OCT 3,88	OCT 2,88	<W 0.02	<W 0.01	<W 0.005	<W 0.005	<T 0.010	0.240	0.0331
OCT 5,88	OCT 4,88	!IS ******	0.76	!IS ******	!IS ******	!IS ******	UG 2.590	0.1585
OCT 6,88	OCT 5,88	******	******	******	******	******	******	******
OCT 7,88	OCT 6,88	0.70	0.09	0.200	0.035	0.045	1.490	UG 0.0001
OCT 8,88	OCT 7,88	0.40	0.15	0.110	<T 0.015	0.035	1.080	0.0045
OCT 9,88	OCT 8,88	******	******	******	******	******	******	******
OCT 11,88	OCT 10,88	0.12	<W 0.01	<T 0.020	<T 0.020	<W 0.005	0.406	0.0017
OCT 12,88	OCT 11,88	0.20	<T 0.04	0.060	<T 0.020	<T 0.015	0.386	0.0002
OCT 17,88	OCT 16,88	3.06	0.30	0.710	0.135	0.140	1.220	UG 0.0001
OCT 18,88	OCT 17,88	D 0.52	<T 0.04	<T 0.020	<W 0.005	<T 0.025	0.350	0.0490

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM $04

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
OCT 19,88	OCT 18,88	530	530	700	1800	1	0.8	1	70077	2	1	48		HM
OCT 22,88	OCT 21,88	530	530	1300	1700	1	5.1	1	70079	2	1	106	A	J
OCT 24,88	OCT 23,88	530	530	600	900	1	5.6	1	70081	2	1	103		J
OCT 25,88	OCT 24,88	530	530	1300	2200	1	12.1	1	70083	2	1	89		JHM
OCT 26,88	OCT 25,88	530	530	****	530	3	4.3	1	70085	2	1	97		J
OCT 27,88	OCT 26,88	530	530	530	1000	3	7.8	2	70087	2	1	92		JHM
OCT 28,88	OCT 27,88	530	530	****	530	1	4.1	2	70089	2	1	117		J
OCT 29,88	OCT 28,88	530	800	530	900	1	1.5	2	70091	2	1	95		
NOV 1,88	OCT 31,88	530	530	****	400	1	0.4	2	70093	2	1	179		NH
NOV 2,88	NOV 1,88	530	530	1800	2000	1	0.2	1	70095	2	1	124		NH
NOV 4,88	NOV 3,88	530	530	300	530	1	1.3	1	70097	2	1	140		N
NOV 5,88	NOV 4,88	530	800	530	530	1	4.5	1	70099	2	1	109		
NOV 6,88	NOV 5,88	800	1100	2000	1100	1	16.4	1	70101	2	1	110		NC
NOV 7,88	NOV 6,88	1100	600	****	****	3	3.0	1	70105	2	1	73		
NOV 9,88	NOV 8,88	530	530	600	1100	1	10.6	2	72338	2	1	99		
NOV 10,88	NOV 9,88	530	530	****	530	1	11.8	2	72340	2	1	105		
NOV 11,88	NOV 10,88	530	530	530	1130	1	7.2	2	72342	2	1	65		
NOV 13,88	NOV 12,88	800	800	****	1000	1	15.3	2	72344	2	1	103		
NOV 17,88	NOV 16,88	530	530	1500	1800	1	3.4	2	72348	2	1	125		NH
NOV 20,88	NOV 19,88	800	1400	1400	1800	3	7.0	2	72350	2	1	104		HCM
NOV 21,88	NOV 20,88	1400	530	1400	2000	1	12.6	2	72352	2	1	91		M
NOV 27,88	NOV 26,88	530	1200	200	200	1	3.5	2	70107	2	1	107		
NOV 29,88	NOV 28,88	530	530	400	400	2	1.6	2	70109	2	1	59		
NOV 30,88	NOV 29,88	530	530	****	****	2	0.1	2	70111	2	1	****	E	NH
DEC 1,88	NOV 30,88	530	530	400	400	2	4.3	2	70113	2	1	50		HM
DEC 2,88	DEC 1,88	530	530	****	****	2	1.0	2	70115	2	1	32		
DEC 9,88	DEC 8,88	530	530	****	****	2	0.7	2	70117	2	1	95		
DEC 11,88	DEC 10,88	530	530	700	1600	2	1.8	2	70119	2	1	44		N
DEC 13,88	DEC 12,88	530	530	530	530	2	1.5	2	70121	2	1	35		N
DEC 14,88	DEC 13,88	530	530	530	200	2	1.3	2	70123	2	1	51		
DEC 15,88	DEC 14,88	530	530	1100	1400	3	2.0	2	70125	2	1	71	C	
DEC 16,88	DEC 15,88	530	530	530	200	2	1.1	2	70127	2	1	32		
DEC 18,88	DEC 17,88	730	1100	1500	1700	2	1.6	2	70129	2	1	52		
DEC 19,88	DEC 18,88	1100	530	1500	2200	2	1.6	2	70131	2	1	9		
DEC 20,88	DEC 19,88	530	530	2200	300	3	0.5	2	70133	2	1	****	EF	
DEC 21,88	DEC 20,88	530	530	****	****	1	2.1	2	70135	2	1	****	CDE	N
DEC 23,88	DEC 22,88	530	530	2200	530	3	7.3	2	70137	2	1	83		J
DEC 24,88	DEC 23,88	530	530	****	****	3	3.7	2	70139	2	1	108		HM
DEC 25,88	DEC 24,88	530	530	****	****	3	3.2	2	70141	2	1	58		
DEC 27,88	DEC 26,88	530	530	530	2000	3	11.8	2	70143	2	1	67	Q	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM #04 PAGE : 11

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
OCT 19,88	OCT 18,88	25.0	6.0	******	UG 7.33	******	0.0176	0.90	LG 0.07
OCT 22,88	OCT 21,88	347.0	33.0	3.79	4.22	******	0.0936	3.30	0.90
OCT 24,88	OCT 23,88	370.0	28.0	3.79	4.19	******	0.0891	2.20	0.74
OCT 25,88	OCT 24,88	692.0	11.0	4.24	4.69	******	0.0480	1.35	<T 0.02
OCT 26,88	OCT 25,88	270.0	8.7	4.24	5.15	******	0.0281	1.55	0.22
OCT 27,88	OCT 26,88	462.0	LG 4.0	4.42	5.31	******	0.0258	LG 0.80	<W 0.01
OCT 28,88	OCT 27,88	309.0	31.5	3.55	4.12	******	0.1020	2.40	0.77
OCT 29,88	OCT 28,88	92.0	35.0	******	4.13	******	0.0996	2.70	1.13
NOV 1,88	OCT 31,88	46.0	24.5	******	D 4.94	******	0.0349	3.85	1.41
NOV 2,88	NOV 1,88	16.0	22.0	******	5.17	******	0.0286	4.40	0.89
NOV 4,88	NOV 3,88	117.0	64.0	3.83	3.94	******	0.1650	6.70	1.73
NOV 5,88	NOV 4,88	315.0	33.0	4.11	4.17	******	0.1060	4.10	0.86
NOV 6,88	NOV 5,88	1166.0	10.0	4.55	4.66	******	0.0460	1.55	0.21
NOV 7,88	NOV 6,88	141.0	7.0	4.93	5.14	******	0.0282	1.10	0.32
NOV 9,88	NOV 8,88	676.0	20.0	******	4.37	******	0.0735	2.15	0.39
NOV 10,88	NOV 9,88	798.0	32.5	******	4.19	******	0.0911	3.50	0.45
NOV 11,88	NOV 10,88	304.0	23.0	******	4.32	******	0.0726	2.85	0.44
NOV 13,88	NOV 12,88	1016.0	19.0	4.26	4.27	******	0.0745	1.70	0.35
NOV 17,88	NOV 16,88	274.0	27.0	4.26	4.31	******	0.1210	4.85	0.53
NOV 20,88	NOV 19,88	469.0	22.0	4.23	D 4.15	******	0.0820	2.65	0.44
NOV 21,88	NOV 20,88	743.0	13.0	4.47	4.46	******	0.0493	1.65	<T 0.03
NOV 27,88	NOV 26,88	242.0	60.0	3.82	3.98	******	0.1510	7.65	0.96
NOV 29,88	NOV 28,88	61.0	!IS ******	******	5.16	******	0.0314	!IS ******	!IS ******
NOV 30,88	NOV 29,88	******	14.5	******	5.06	******	0.0478	2.30	0.59
DEC 1,88	NOV 30,88	139.0	44.5	4.19	4.35	******	0.0928	4.10	0.41
DEC 2,88	DEC 1,88	21.0	!IS ******	******	5.65	******	LG 0.0081	!IS ******	!IS ******
DEC 9,88	DEC 8,88	43.0	!IS ******	******	UG 7.11	******	0.0144	!IS ******	!IS ******
DEC 11,88	DEC 10,88	51.0	19.5	******	UG 7.39	******	0.0156	1.00	0.65
DEC 13,88	DEC 12,88	34.0	!IS ******	******	4.52	******	0.0547	!IS ******	!IS ******
DEC 14,88	DEC 13,88	43.0	!IS ******	******	4.69	******	0.0437	1.10	1.23
DEC 15,88	DEC 14,88	92.0	!IS ******	******	5.37	******	0.0299	5.35	1.62
DEC 16,88	DEC 15,88	23.0	!IS ******	******	UG 7.12	******	0.0140	0.60	0.14
DEC 18,88	DEC 17,88	54.0	!IS ******	******	UG 6.63	******	0.0178	0.70	0.37
DEC 19,88	DEC 18,88	10.0	!IS ******	******	5.95	******	0.0157	<T 0.20	LG 0.07
DEC 20,88	DEC 19,88	******	******	******	******	******	******	******	******
DEC 21,88	DEC 20,88	******	******	******	******	******	******	******	******
DEC 23,88	DEC 22,88	391.0	13.0	4.01	4.64	******	0.0454	1.65	0.24
DEC 24,88	DEC 23,88	257.0	25.0	3.85	4.21	******	0.0784	1.85	LG 0.08
DEC 25,88	DEC 24,88	120.0	9.0	UG 5.42	5.28	******	0.0331	1.55	0.37
DEC 27,88	DEC 26,88	512.0	18.5	******	4.47	******	0.0511	2.15	0.22

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM 804 PAGE : 12

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
OCT 19,88	OCT 18,88	0.24	<T 0.02	0.065	<T 0.015	0.025	0.680	UG 0.0000
OCT 22,88	OCT 21,88	0.50	0.19	0.055	<T 0.010	<T 0.020	0.786	0.0603
OCT 24,88	OCT 23,88	0.20	0.07	<T 0.020	<T 0.015	<T 0.010	0.450	0.0646
OCT 25,88	OCT 24,88	<T 0.04	<T 0.02	<T 0.010	<T 0.010	<T 0.005	0.316	0.0204
OCT 26,88	OCT 25,88	<T 0.02	<T 0.02	<T 0.010	<T 0.010	<W 0.005	0.570	0.0071
OCT 27,88	OCT 26,88	<T 0.04	<T 0.03	<T 0.015	<W 0.005	<W 0.005	0.276	0.0049
OCT 28,88	OCT 27,88	0.30	0.08	0.025	<T 0.010	<T 0.010	0.350	0.0759
OCT 29,88	OCT 28,88	0.24	0.15	0.025	<T 0.015	<W 0.005	0.836	0.0741
NOV 1,88	OCT 31,88	2.00	0.18	0.405	0.125	0.035	0.800	D 0.0115
NOV 2,88	NOV 1,88	0.66	0.19	0.120	0.045	0.055	1.790	0.0068
NOV 4,88	NOV 3,88	0.48	0.23	0.090	0.035	0.040	1.450	0.1148
NOV 5,88	NOV 4,88	0.34	0.38	0.045	0.030	0.195	0.920	0.0676
NOV 6,88	NOV 5,88	<T 0.06	0.18	<T 0.020	<T 0.005	0.090	0.336	0.0219
NOV 7,88	NOV 6,88	<T 0.08	<T 0.04	<T 0.005	<W 0.005	<T 0.005	0.500	0.0072
NOV 9,88	NOV 8,88	<T 0.10	0.07	<T 0.015	<T 0.010	<T 0.015	0.310	0.0427
NOV 10,88	NOV 9,88	0.26	0.50	0.045	0.030	0.245	0.240	0.0646
NOV 11,88	NOV 10,88	0.16	0.13	0.035	0.025	0.055	0.466	0.0479
NOV 13,88	NOV 12,88	<T 0.08	0.12	<T 0.010	<T 0.010	<T 0.015	0.186	0.0537
NOV 17,88	NOV 16,88	1.06	0.34	0.140	0.065	0.140	0.600	0.0490
NOV 20,88	NOV 19,88	0.20	0.11	0.050	<T 0.010	<T 0.020	0.406	D 0.0708
NOV 21,88	NOV 20,88	<T 0.02	<T 0.03	<W 0.005	<W 0.005	<T 0.005	0.146	0.0347
NOV 27,88	NOV 26,88	0.72	1.14	0.160	0.095	0.580	0.940	0.1047
NOV 29,88	NOV 28,88	0.50	!IS ******	0.100	<T 0.020	0.030	1.040	0.0069
NOV 30,88	NOV 29,88	0.44	<W 0.01	0.085	<T 0.020	0.030	0.910	0.0087
DEC 1,88	NOV 30,88	2.05	<W 0.01	0.180	0.110	0.080	1.290	0.0447
DEC 2,88	DEC 1,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	1.070	0.0022
DEC 9,88	DEC 8,88	1.52	!IS ******	0.300	<T 0.015	0.080	0.310	UG 0.0001
DEC 11,88	DEC 10,88	2.44	0.06	UG 0.655	0.025	0.225	0.416	UG 0.0000
DEC 13,88	DEC 12,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	LG 0.030	0.0302
DEC 14,88	DEC 13,88	!IS ******	0.55	!IS ******	!IS ******	!IS ******	0.676	0.0204
DEC 15,88	DEC 14,88	2.16	0.76	0.260	0.165	0.295	1.360	0.0043
DEC 16,88	DEC 15,88	!IS ******	0.66	!IS ******	!IS ******	!IS ******	0.176	UG 0.0001
DEC 18,88	DEC 17,88	!IS ******	0.33	!IS ******	!IS ******	!IS ******	0.336	UG 0.0002
DEC 19,88	DEC 18,88	!IS ******	0.07	!IS ******	!IS ******	!IS ******	0.066	0.0011
DEC 20,88	DEC 19,88	******	******	******	******	******	******	******
DEC 21,88	DEC 20,88	******	******	******	******	******	******	******
DEC 23,88	DEC 22,88	0.29	<W 0.01	0.080	<T 0.005	0.030	0.150	0.0229
DEC 24,88	DEC 23,88	<T 0.06	<W 0.01	<T 0.005	<T 0.010	<T 0.020	0.390	0.0617
DEC 25,88	DEC 24,88	0.54	!IS ******	0.095	<T 0.025	0.120	0.456	0.0052
DEC 27,88	DEC 26,88	0.22	0.21	0.050	<T 0.015	0.095	0.146	0.0339

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM #04

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
DEC 28,88	DEC 27,88	530	530	700	2000	1	16.0	2	70145	2	1	98		
DEC 29,88	DEC 28,88	530	530	2200	300	2	2.9	2	70149	2	1	16		N
DEC 30,88	DEC 29,88	530	530	****	****	2	0.2	2	70151	2	1	****	E	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM 804

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
DEC 28,88	DEC 27,88	1010.0	24.0	******		4.30	******	0.0683	2.00	0.27
DEC 29,88	DEC 28,88	30.0	19.0	******	UG	7.15	******	0.0152	1.55	0.55
DEC 30,88	DEC 29,88	******	******	******		******	******	******	******	******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM #04

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
DEC 28,88	DEC 27,88	<T 0.04	0.17	<T 0.005	<T 0.010	0.040	0.160	0.0501
DEC 29,88	DEC 28,88	1.90	0.55	0.460	0.030	0.310	!IS ******	UQ 0.0001
DEC 30,88	DEC 29,88	******	******	******	******	******	******	******

PART VIII

OUT OF PROVINCE

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : PENN. STATE/DAILY/AEROCHEM

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
MAY 14,88	MAY 11,88	1300	800	****	****	1	1.6	1	59055	2	1	62		CY3
MAY 16,88	MAY 14,88	800	820	****	****	1	5.8	1	59057	2	1	101		Y2
MAY 17,88	MAY 16,88	820	815	****	****	1	6.8	1	59059	2	1	101		
MAY 18,88	MAY 17,88	815	815	700	815	1	16.6	1	59070	2	1	U 93	F	X
MAY 19,88	MAY 18,88	815	810	800	700	1	30.4	1	59072	2	1	106		
MAY 20,88	MAY 19,88	810	800	****	****	4	0.2	1	59074	2	1	31		N
MAY 21,88	MAY 20,88	800	830	****	****	1	2.4	1	59076	2	1	109		
MAY 24,88	MAY 23,88	830	800	****	****	1	5.2	1	59080	2	1	101	C	
MAY 25,88	MAY 24,88	800	830	****	****	1	10.1	1	59091	2	1	100		
JUN 2,88	MAY 31,88	745	800	****	****	1	****	1	59103	2	1	****	E	Y2
JUN 3,88	JUN 2,88	800	800	****	****	1	0.4	1	59105	2	1	58		
JUN 4,88	JUN 3,88	800	815	****	****	1	3.4	1	59107	2	1	100		
JUN 8,88	JUN 4,88	815	830	****	****	1	1.0	1	59109	2	1	93		Y4
JUN 9,88	JUN 8,88	830	750	****	****	1	12.8	1	59111	2	1	104		
JUN 17,88	JUN 15,88	815	830	****	****	1	5.2	1	59123	2	1	U 111	G	Y2
JUL 2,88	JUL 1,88	800	830	****	****	1	0.2	1	59161	2	1	70	E	
JUL 12,88	JUL 10,88	815	800	****	****	1	2.4	1	59176	2	1	122		NCZ
JUL 15,88	JUL 12,88	800	815	****	****	1	1.3	1	59178	2	1	U 84	G	Z
JUL 17,88	JUL 15,88	815	800	****	****	1	1.4	1	59180	2	1	94		Z
JUL 18,88	JUL 17,88	815	830	****	****	1	0.2	1	59182	2	1	78		X
JUL 19,88	JUL 18,88	830	830	2300	2400	1	29.0	1	59184	2	1	113		
JUL 20,88	JUL 19,88	830	810	300	500	1	6.8	1	59186	2	1	102		
JUL 21,88	JUL 20,88	810	810	200	400	1	20.9	1	59203	2	1	100		
JUL 22,88	JUL 21,88	810	830	****	****	1	9.4	1	59206	2	1	113		
JUL 24,88	JUL 22,88	830	830	****	****	1	18.0	1	59208	2	1	105		Y2
JUL 27,88	JUL 24,88	830	800	1500	1700	1	11.5	1	59209	2	1	88		Y2
JUL 31,88	JUL 27,88	800	815	****	****	1	1.8	1	59227	2	1	94	A	CY4
AUG 6,88	AUG 3,88	900	830	****	****	1	1.0	1	59248	2	1	****		NY3
AUG 7,88	AUG 6,88	830	830	****	****	1	3.0	1	59249	2	1	14		N
AUG 14,88	AUG 7,88	815	815	****	****	1	2.4	1	59266	2	1	98	C	CZ
AUG 18,88	AUG 14,88	815	820	****	****	1	0.1	1	59285	2	1	218		NY4
AUG 19,88	AUG 18,88	820	845	****	****	1	18.1	1	59287	2	1	103		
AUG 20,88	AUG 19,88	845	830	****	****	4	0.1	1	59289	2	1	****	E	N
AUG 24,88	AUG 21,88	815	815	****	****	1	31.0	1	59302	2	1	106		Y3
AUG 25,88	AUG 24,88	815	835	****	****	1	2.2	1	59311	2	1	109		
AUG 29,88	AUG 26,88	925	815	2000	815	1	72.2	1	59313	2	1	116		NY3
AUG 30,88	AUG 29,88	815	830	****	****	1	30.1	1	59315	2	1	106		NCM
SEP 4,88	AUG 31,88	900	815	****	****	1	28.8	1	59333	2	1	107		Y4
SEP 5,88	SEP 4,88	815	840	****	****	1	5.7	1	59335	2	1	87		M
SEP 13,88	SEP 12,88	845	815	****	****	1	22.0	1	59357	2	1	U 103	G	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : PENN. STATE/DAILY/AEROCHEM

PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
MAY 14,88	MAY 11,88	64.0	18.0	******	3.72	******	0.2340	10.40	2.35
MAY 16,88	MAY 14,88	379.0	79.0	******	3.73	******	0.2160	8.55	1.17
MAY 17,88	MAY 16,88	442.0	46.5	******	4.18	******	0.1000	7.15	1.10
MAY 18,88	MAY 17,88	997.0	******	******	******	******	******	******	******
MAY 19,88	MAY 18,88	2067.0	24.0	******	4.24	******	0.0774	2.30	0.38
MAY 20,88	MAY 19,88	4.0	!RE ******	******	!RE ******	******	!RE ******	!RE ******	!RE ******
MAY 21,88	MAY 20,88	168.0	37.0	******	4.08	******	0.1090	2.95	0.80
MAY 24,88	MAY 23,88	339.0	28.0	******	4.25	******	0.0843	3.20	0.36
MAY 25,88	MAY 24,88	653.0	47.0	******	3.95	******	0.1440	4.75	0.64
JUN 2,88	MAY 31,88	3.0	!RE ******	******	!RE ******	******	!RE ******	!RE ******	!RE ******
JUN 3,88	JUN 2,88	15.0	!LA ******	******	!IS ******	******	!IS ******	!LA ******	!LA ******
JUN 4,88	JUN 3,88	220.0	40.0	******	4.06	******	0.1140	2.85	1.08
JUN 8,88	JUN 4,88	60.0	53.0	******	4.12	******	0.1230	8.80	1.16
JUN 9,88	JUN 8,88	855.0	16.0	******	4.45	******	0.0552	1.65	0.30
JUN 17,88	JUN 15,88	372.0	92.5	******	3.77	******	0.2110	9.85	0.94
JUL 2,88	JUL 1,88	9.0	******	******	******	******	******	******	******
JUL 12,88	JUL 10,88	188.0	> 100.0	******	LG 3.53	******	UG 0.3630	15.50	1.88
JUL 15,88	JUL 12,88	70.0	!IS ******	******	!IS ******	******	!IS ******	!IS ******	!IS ******
JUL 17,88	JUL 15,88	85.0	> 100.0	******	LG 3.25	******	UG 0.6240	UG 25.50	2.46
JUL 18,88	JUL 17,88	10.0	******	******	******	******	******	******	******
JUL 19,88	JUL 18,88	2105.0	50.5	******	4.00	******	0.1210	4.85	0.39
JUL 20,88	JUL 19,88	447.0	94.5	******	3.68	******	0.2280	7.35	0.99
JUL 21,88	JUL 20,88	1344.0	32.0	******	4.18	******	0.0817	2.35	0.37
JUL 22,88	JUL 21,88	682.0	19.0	******	4.40	******	0.0547	1.30	0.21
JUL 24,88	JUL 22,88	1222.0	42.0	******	4.07	******	0.1030	3.40	0.47
JUL 27,88	JUL 24,88	656.0	88.0	******	3.77	******	0.2120	8.25	0.78
JUL 31,88	JUL 27,88	109.0	> 100.0	******	LG 3.50	******	UG 0.3670	14.20	2.20
AUG 6,88	AUG 3,88	******	******	******	******	******	******	******	******
AUG 7,88	AUG 6,88	27.0	11.5	******	!IR ******	******	!IR ******	1.35	0.17
AUG 14,88	AUG 7,88	151.0	> 100.0	******	LG 3.46	******	UG 0.4750	UG 18.10	2.50
AUG 18,88	AUG 14,88	14.0	LG 3.0	******	!IR ******	******	!IR ******	0.85	LG 0.10
AUG 19,88	AUG 18,88	1206.0	17.0	******	4.41	******	0.0723	1.70	0.27
AUG 20,88	AUG 19,88	******	******	******	******	******	******	******	******
AUG 24,88	AUG 21,88	2114.0	29.0	******	4.23	******	0.0953	3.15	0.29
AUG 25,88	AUG 24,88	154.0	71.0	******	3.91	******	0.1900	7.85	1.28
AUG 29,88	AUG 26,88	5400.0	25.0	******	4.31	******	0.0845	2.85	0.22
AUG 30,88	AUG 29,88	2059.0	LG 3.0	******	UG 5.07	******	0.0267	0.50	LG 0.07
SEP 4,88	AUG 31,88	1980.0	13.0	******	4.49	******	0.0533	1.05	0.23
SEP 5,88	SEP 4,88	320.0	13.0	******	4.46	******	0.0586	1.05	0.17
SEP 13,88	SEP 12,88	1464.0	16.0	******	4.43	******	0.0588	1.70	0.22

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : PENN. STATE/DAILY/AEROCHEM

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
MAY 14,88	MAY 11,88	2.18	0.82	0.225	0.275	0.175	1.230	0.1905
MAY 16,88	MAY 14,88	0.34	0.23	0.045	0.045	0.040	0.762	0.1862
MAY 17,88	MAY 16,88	0.88	0.25	0.145	0.145	0.065	1.440	0.0661
MAY 18,88	MAY 17,88	******	******	******	******	******	******	******
MAY 19,88	MAY 18,88	<T 0.08	0.05	<T 0.015	<W 0.005	<T 0.020	0.194	0.0575
MAY 20,88	MAY 19,88	!IS ******	!RE ******	!IS ******	!IS ******	!IS ******	!RE ******	!RE ******
MAY 21,88	MAY 20,88	<T 0.06	0.08	<T 0.015	0.070	<T 0.020	0.348	0.0832
MAY 24,88	MAY 23,88	0.18	0.12	0.040	0.085	0.030	0.258	0.0562
MAY 25,88	MAY 24,88	0.10	0.23	<T 0.020	0.035	<T 0.015	0.366	0.1122
JUN 2,88	MAY 31,88	!IS ******	!RE ******	!IS ******	!IS ******	!IS ******	!RE ******	!RE ******
JUN 3,88	JUN 2,88	0.64	!LA ******	0.115	0.080	0.490	!LA ******	!IS ******
JUN 4,88	JUN 3,88	0.32	0.30	0.050	0.030	0.140	0.374	0.0871
JUN 8,88	JUN 4,88	1.90	0.28	0.385	0.180	0.065	0.920	0.0759
JUN 9,88	JUN 8,88	0.14	<T 0.05	0.025	<T 0.010	<T 0.005	0.168	0.0355
JUN 17,88	JUN 15,88	!IS ******	0.35	!IS ******	!IS ******	!IS ******	0.812	0.1698
JUL 2,88	JUL 1,88	******	******	******	******	******	******	******
JUL 12,88	JUL 10,88	1.18	0.91	0.165	0.075	0.140	0.968	LG 0.2951
JUL 15,88	JUL 12,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******
JUL 17,88	JUL 15,88	0.68	0.78	0.085	0.090	0.165	!IS ******	LG 0.5623
JUL 18,88	JUL 17,88	******	******	******	******	******	******	******
JUL 19,88	JUL 18,88	<T 0.10	0.11	<T 0.015	<T 0.010	<T 0.010	0.336	0.1000
JUL 20,88	JUL 19,88	<T 0.04	0.20	<T 0.010	<T 0.005	<T 0.015	0.238	0.2089
JUL 21,88	JUL 20,88	<T 0.04	0.07	<T 0.010	<W 0.005	<T 0.015	0.092	0.0661
JUL 22,88	JUL 21,88	<W 0.02	<T 0.04	<T 0.005	<W 0.005	<T 0.005	0.084	0.0398
JUL 24,88	JUL 22,88	<T 0.04	0.11	<T 0.005	<T 0.015	<T 0.015	0.296	0.0851
JUL 27,88	JUL 24,88	0.18	0.22	0.030	<T 0.010	<T 0.010	0.514	0.1698
JUL 31,88	JUL 27,88	1.14	0.91	0.140	0.370	0.170	0.652	LG 0.3162
AUG 6,88	AUG 3,88	******	******	******	******	******	******	******
AUG 7,88	AUG 6,88	0.14	0.10	<T 0.015	<T 0.020	0.095	0.046	!IR ******
AUG 14,88	AUG 7,88	1.38	2.35	0.200	0.095	0.080	0.820	LG 0.3467
AUG 18,88	AUG 14,88	<T 0.02	0.05	<W 0.005	<T 0.015	<T 0.015	0.040	!IR ******
AUG 19,88	AUG 18,88	<W 0.02	<T 0.03	<W 0.005	<T 0.010	<T 0.005	0.126	0.0389
AUG 20,88	AUG 19,88	******	******	******	******	******	******	******
AUG 24,88	AUG 21,88	<W 0.02	0.06	<W 0.005	<T 0.015	<T 0.015	0.250	0.0589
AUG 25,88	AUG 24,88	0.42	0.46	0.080	0.135	0.065	1.190	0.1230
AUG 29,88	AUG 26,88	<T 0.04	0.12	<T 0.010	<T 0.025	0.030	0.230	0.0490
AUG 30,88	AUG 29,88	<T 0.04	<T 0.04	<W 0.005	<W 0.005	<T 0.015	0.030	UG 0.0085
SEP 4,88	AUG 31,88	<T 0.06	<W 0.01	<W 0.005	<W 0.005	<T 0.020	0.120	0.0324
SEP 5,88	SEP 4,88	<T 0.02	<W 0.01	<W 0.005	<T 0.015	<T 0.010	0.076	0.0347
SEP 13,88	SEP 12,88	<T 0.08	<T 0.05	<T 0.010	<T 0.010	<T 0.015	0.136	0.0372

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : PENN. STATE/DAILY/AEROCHEM

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
SEP 14,88	SEP 13,88	815	930	****	****	1	0.2	1	84159	2	1	23	E	N
SEP 17,88	SEP 14,88	930	815	****	****	1	7.9	1	59375	2	1	103	C	Z
SEP 18,88	SEP 17,88	815	815	****	****	1	14.6	1	59377	2	1	99		
SEP 21,88	SEP 20,88	815	830	****	****	1	7.4	1	59381	2	1	105		
SEP 23,88	SEP 22,88	815	930	600	750	1	4.0	1	59401	2	1	98		
SEP 24,88	SEP 23,88	930	815	****	****	1	0.4	1	59403	2	1	42		N
SEP 25,88	SEP 24,88	815	815	****	****	1	0.6	1	59405	2	1	80		
OCT 3,88	SEP 26,88	845	900	****	****	1	4.0	1	59423	2	1	95		NZ
OCT 6,88	OCT 3,88	900	810	****	****	1	0.2	1	59425	2	1	85		YZ
OCT 8,88	OCT 6,88	810	815	****	****	1	0.2	1	59427	2	1	148		NYZ
OCT 9,88	OCT 8,88	815	815	****	****	1	0.1	1	59429	2	1	****	E	N
OCT 11,88	OCT 9,88	810	810	****	****	1	2.0	1	59432	2	1	101		YZ
OCT 12,88	OCT 11,88	835	825	****	****	1	1.6	1	59434	2	1	97		N
OCT 18,88	OCT 13,88	820	815	****	****	1	1.6	1	59454	2	1	92		Z
OCT 19,88	OCT 18,88	815	1000	****	****	1	1.1	1	59472	2	1	96		
OCT 20,88	OCT 19,88	1000	830	****	****	1	3.0	1	59474	2	1	98		
OCT 22,88	OCT 20,88	830	825	****	****	1	13.8	1	59476	2	1	96		NZ
OCT 23,88	OCT 22,88	825	825	****	****	1	3.0	1	59478	2	1	81		
OCT 24,88	OCT 23,88	825	845	****	****	1	7.6	1	59481	2	1	100		
OCT 25,88	OCT 24,88	845	815	****	****	3	0.6	1	59482	2	1	36		
OCT 28,88	OCT 26,88	1000	900	****	****	1	1.0	1	59501	2	1	87		Z
OCT 29,88	OCT 28,88	900	830	****	****	1	0.9	1	59503	2	1	55		
NOV 2,88	OCT 29,88	830	910	****	****	1	2.0	1	59520	2	1	U 101	CG	Z
NOV 3,88	NOV 2,88	910	815	****	****	1	0.3	1	59538	2	1	103		NC
NOV 4,88	NOV 3,88	815	915	****	****	1	8.2	1	59541	2	1	101		
NOV 5,88	NOV 4,88	915	800	****	****	1	4.4	1	59542	2	1	103	Q	
NOV 6,88	NOV 5,88	800	815	****	****	1	26.6	1	59544	2	1	106		N
NOV 7,88	NOV 6,88	815	900	****	****	3	2.0	1	59547	2	1	87		
NOV 9,88	NOV 8,88	830	945	****	****	3	0.4	2	59550	2	1	210		NC
NOV 11,88	NOV 9,88	950	830	****	****	1	1.0	2	59552	2	1	182		NCZ
NOV 13,88	NOV 11,88	830	800	****	****	1	6.8	2	59554	2	1	119		CZ
NOV 14,88	NOV 13,88	800	858	****	****	1	8.2	2	59557	2	1	79		
NOV 17,88	NOV 15,88	830	800	****	****	1	1.7	2	59578	2	1	147		NCZ
NOV 20,88	NOV 17,88	810	800	****	****	3	13.9	2	59580	2	1	99		NZ
NOV 21,88	NOV 20,88	800	800	****	****	1	20.4	2	59582	2	1	93		N
NOV 27,88	NOV 21,88	800	800	****	****	1	0.9	2	59600	2	1	161		NHNZ
NOV 28,88	NOV 27,88	800	900	****	****	1	0.8	2	59602	2	1	89		
NOV 29,88	NOV 28,88	900	830	****	****	2	0.7	2	59620	2	1	6	E	N
DEC 11,88	DEC 6,88	815	800	****	****	2	1.2	2	59641	2	1	52		Z
DEC 12,88	DEC 11,88	800	930	****	****	2	1.4	2	59643	2	1	82		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : PENN. STATE/DAILY/AEROCHEM

PAGE : 5

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
SEP 14,88	SEP 13,88	3.0	******	******	******	******	******	******	******
SEP 17,88	SEP 14,88	523.0	!IS ******	******	!BT ******	******	!BT ******	!IS ******	!IS ******
SEP 18,88	SEP 17,88	934.0	15.0	******	4.41	******	0.0606	1.85	LG 0.10
SEP 21,88	SEP 20,88	502.0	8.0	******	4.67	******	0.0392	0.95	LG 0.11
SEP 23,88	SEP 22,88	253.0	40.5	******	4.00	******	0.1240	4.40	0.53
SEP 24,88	SEP 23,88	11.0	24.5	******	UG 5.51	******	LG 0.0169	2.30	0.40
SEP 25,88	SEP 24,88	31.0	19.0	******	4.19	******	0.0876	1.45	0.40
OCT 3,88	SEP 26,88	245.0	41.0	******	3.90	******	0.1520	3.80	0.38
OCT 6,88	OCT 3,88	11.0	14.0	******	4.18	******	0.0949	1.10	<W 0.01
OCT 8,88	OCT 6,88	19.0	69.0	******	!IS ******	******	!IS ******	1.85	1.47
OCT 9,88	OCT 8,88	******	******	******	******	******	******	******	******
OCT 11,88	OCT 9,88	130.0	58.0	******	3.95	******	0.1410	4.65	1.07
OCT 12,88	OCT 11,88	100.0	18.0	******	4.39	******	0.0663	1.75	0.40
OCT 18,88	OCT 13,88	95.0	35.0	******	4.18	******	0.0914	3.60	0.78
OCT 19,88	OCT 18,88	68.0	!IS ******	******	4.26	******	0.0802	!IS ******	!IS ******
OCT 20,88	OCT 19,88	190.0	43.0	******	3.97	******	0.1240	2.25	0.89
OCT 22,88	OCT 20,88	857.0	24.0	******	4.24	******	0.0764	1.50	0.56
OCT 23,88	OCT 22,88	156.0	29.0	******	4.13	******	0.0902	1.45	0.64
OCT 24,88	OCT 23,88	490.0	17.5	******	4.43	******	0.0561	1.75	0.40
OCT 25,88	OCT 24,88	14.0	11.0	******	UG 5.33	******	0.0229	3.10	0.17
OCT 28,88	OCT 26,88	56.0	31.0	******	4.15	******	0.0923	2.50	0.69
OCT 29,88	OCT 28,88	32.0	31.0	******	4.25	******	0.1920	3.75	0.43
NOV 2,88	OCT 29,88	130.0	!RE ******	******	!RE ******	******	!RE ******	!RE ******	!RE ******
NOV 3,88	NOV 2,88	20.0	50.5	******	4.23	******	0.0820	3.55	0.83
NOV 4,88	NOV 3,88	532.0	25.0	******	4.23	******	0.0792	2.45	0.37
NOV 5,88	NOV 4,88	293.0	28.0	******	4.22	******	0.0827	2.75	0.46
NOV 6,88	NOV 5,88	1810.0	LG 6.0	******	UG 4.83	******	0.0329	0.80	0.09
NOV 7,88	NOV 6,88	112.0	27.5	******	4.24	******	0.0794	2.60	0.48
NOV 9,88	NOV 8,88	54.0	31.0	******	3.88	******	0.1890	5.95	1.21
NOV 11,88	NOV 9,88	117.0	34.0	******	4.05	******	0.1310	4.70	0.88
NOV 13,88	NOV 11,88	519.0	29.0	******	4.38	******	0.0670	1.85	0.35
NOV 14,88	NOV 13,88	416.0	17.5	******	4.40	******	0.0531	1.59	0.20
NOV 17,88	NOV 15,88	161.0	21.0	******	4.15	******	0.1070	4.15	0.79
NOV 20,88	NOV 17,88	887.0	12.5	******	4.53	******	0.0410	0.95	0.23
NOV 21,88	NOV 20,88	1218.0	!IS ******	******	4.73	******	0.0347	!IS ******	!IS ******
NOV 27,88	NOV 21,88	93.0	!IR ******	******	3.92	******	0.1390	5.05	1.17
NOV 28,88	NOV 27,88	46.0	!IS ******	******	4.48	******	0.0531	!IS ******	!IS ******
NOV 29,88	NOV 28,88	3.0	******	******	******	******	******	******	******
DEC 11,88	DEC 6,88	40.0	!IS ******	******	4.59	******	0.0466	!IS ******	!IS ******
DEC 12,88	DEC 11,88	74.0	!IR ******	******	4.43	******	0.0554	0.75	0.54

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : PENN. STATE/DAILY/AEROCHEM

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
SEP 14,88	SEP 13,88	******	******	******	******	******	******	******
SEP 17,88	SEP 14,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	<W 0.006	!BT ******
SEP 18,88	SEP 17,88	<T 0.02	0.11	<W 0.005	<T 0.015	<T 0.010	0.140	0.0389
SEP 21,88	SEP 20,88	<T 0.02	<T 0.05	<T 0.005	<T 0.010	0.025	0.116	0.0214
SEP 23,88	SEP 22,88	0.28	0.25	0.035	0.030	0.105	0.266	0.1000
SEP 24,88	SEP 23,88	!IS ******	0.17	!IS ******	!IS ******	!IS ******	0.120	UG 0.0031
SEP 25,88	SEP 24,88	!IS ******	0.12	!IS ******	!IS ******	!IS ******	0.140	0.0646
OCT 3,88	SEP 26,88	<T 0.10	0.26	<T 0.010	<T 0.010	0.030	0.196	0.1259
OCT 6,88	OCT 3,88	!IS ******	0.18	!IS ******	!IS ******	!IS ******	0.116	0.0661
OCT 8,88	OCT 6,88	!IS ******	1.34	!IS ******	!IS ******	!IS ******	0.060	!IS ******
OCT 9,88	OCT 8,88	******	******	******	******	******	******	******
OCT 11,88	OCT 9,88	0.54	0.25	0.075	0.030	0.025	0.476	0.1122
OCT 12,88	OCT 11,88	0.48	0.26	0.055	0.030	<T 0.020	0.206	0.0407
OCT 18,88	OCT 13,88	0.50	0.26	0.065	0.030	0.185	0.290	0.0661
OCT 19,88	OCT 18,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	!RE ******	0.0550
OCT 20,88	OCT 19,88	<T 0.06	0.54	<T 0.015	<T 0.005	<T 0.010	0.160	0.1072
OCT 22,88	OCT 20,88	<T 0.04	0.17	<W 0.005	<W 0.005	<T 0.010	0.230	0.0575
OCT 23,88	OCT 22,88	<T 0.04	0.21	<W 0.005	<T 0.005	<T 0.015	<T 0.020	0.0741
OCT 24,88	OCT 23,88	0.14	0.07	<T 0.020	<T 0.015	0.105	0.150	0.0372
OCT 25,88	OCT 24,88	0.60	0.28	0.110	0.050	UG 0.725	0.086	UG 0.0047
OCT 28,88	OCT 26,88	0.24	0.14	0.025	<T 0.015	0.040	0.106	0.0708
OCT 29,88	OCT 28,88	0.34	0.14	0.045	<T 0.020	0.050	0.176	0.0562
NOV 2,88	OCT 29,88	!RE ******	!RE ******	!RE ******	!RE ******	!RE ******	!RE ******	!RE ******
NOV 3,88	NOV 2,88	0.24	0.25	0.035	<T 0.025	0.040	0.606	0.0589
NOV 4,88	NOV 3,88	<T 0.10	0.14	<T 0.015	<T 0.010	0.035	0.150	0.0589
NOV 5,88	NOV 4,88	<T 0.10	0.54	0.035	0.025	0.305	0.266	0.0603
NOV 6,88	NOV 5,88	<T 0.02	0.11	<T 0.005	<T 0.005	0.030	0.076	UG 0.0148
NOV 7,88	NOV 6,88	<T 0.06	0.22	<T 0.010	<T 0.015	<T 0.010	0.266	0.0575
NOV 9,88	NOV 8,88	0.57	0.61	0.050	0.100	0.170	0.446	0.1318
NOV 11,88	NOV 9,88	0.26	0.52	0.030	0.045	0.105	0.640	0.0891
NOV 13,88	NOV 11,88	<T 0.04	0.35	0.025	<T 0.025	0.215	0.160	0.0417
NOV 14,88	NOV 13,88	<W 0.02	<W 0.01	<W 0.005	<T 0.010	<T 0.015	0.190	0.0398
NOV 17,88	NOV 15,88	0.68	0.25	0.065	0.050	0.130	0.390	0.0708
NOV 20,88	NOV 17,88	<W 0.02	<W 0.01	<W 0.005	<W 0.005	<T 0.005	0.060	0.0295
NOV 21,88	NOV 20,88	<T 0.06	!IS ******	<T 0.020	0.040	0.095	0.080	0.0186
NOV 27,88	NOV 21,88	<W 0.02	1.85	<W 0.005	<T 0.005	0.025	0.740	0.1202
NOV 28,88	NOV 27,88	0.22	!IS ******	0.170	0.125	1.340	0.236	0.0331
NOV 29,88	NOV 28,88	******	******	******	******	******	******	******
DEC 11,88	DEC 6,88	1.44	!IS ******	0.105	0.135	0.265	0.130	0.0257
DEC 12,88	DEC 11,88	0.47	1.17	0.075	0.035	0.295	0.060	0.0372

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : PENN. STATE/DAILY/AEROCHEM

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
DEC 13,88	DEC 13,88	930	815	****	****	2	0.2	2	59646	2	1	****	E	NZ
DEC 14,88	DEC 13,88	815	830	****	****	2	1.6	2	59648	2	1	29		N
DEC 18,88	DEC 14,88	830	830	****	****	2	0.6	2	59649	2	1	67		Z
DEC 19,88	DEC 18,88	830	835	****	****	2	0.6	2	59651	2	1	51		
DEC 21,88	DEC 19,88	830	815	****	****	1	0.4	2	59669	2	1	167		NZ
DEC 23,88	DEC 21,88	815	800	600	800	3	7.4	2	59672	2	1	119		HMZ
DEC 26,88	DEC 23,88	800	815	****	****	3	22.9	2	59673	2	1	U 78	G	Z
DEC 30,88	DEC 28,88	830	830	****	****	1	4.0	2	59693	2	1	94		Z

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : PENN. STATE/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L		TOTAL H+ GRAN MG/L	SULPHATE MG/L		NITRATE AS N MG/L
DEC 13,88	DEC 13,88	******	!IS ******	******		4.32	******		0.0612	!IS ******		!IS ******
DEC 14,88	DEC 13,88	30.0	!IS ******	******	UG	3.57	******	LG	0.0129	!IS ******		!IS ******
DEC 18,88	DEC 14,88	26.0	!IS ******	******		4.09	******		0.1150	!IS ******		!IS ******
DEC 19,88	DEC 18,88	20.0	!IS ******	******		4.11	******		0.1020	!IS ******		!IS ******
DEC 21,88	DEC 19,88	43.0	!IS ******	******		3.71	******	UG	0.2430	!IS ******		!IS ******
DEC 23,88	DEC 21,88	565.0	19.5	******		4.23	******		0.0787	1.55		0.09
DEC 26,88	DEC 23,88	1156.0	18.5	******	!SM	******	******	!SM	******	1.30	<T	0.04
DEC 30,88	DEC 28,88	243.0	33.5	******		4.16	******		0.0862	2.65		0.40

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : PENN. STATE/DAILY/AEROCHEM

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
DEC 13,88	DEC 13,88	0.18	!IS ******	0.025	<T 0.020	0.055	0.040	0.0479
DEC 14,88	DEC 13,88	!SM ******	!IS ******	!SM ******	!SM ******	!SM ******	<T 0.020	UQ 0.0027
DEC 18,88	DEC 14,88	0.60	!IS ******	0.105	0.050	0.210	0.156	0.0813
DEC 19,88	DEC 18,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	0.056	0.0776
DEC 21,88	DEC 19,88	0.76	!IS ******	0.160	0.065	0.575	0.650	0.1950
DEC 23,88	DEC 21,88	<T 0.04	0.16	<T 0.010	<T 0.010	0.040	0.236	0.0589
DEC 26,88	DEC 23,88	<T 0.04	<W 0.01	<T 0.005	<T 0.025	0.030	0.116	!SM ******
DEC 30,88	DEC 28,88	0.12	0.68	0.055	0.060	0.420	0.186	0.0692

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROCHEM./7011

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 1,88	DEC 31,87	830	830	1835	830	3	0.4	2	75289	2	1	****	E	N
JAN 2,88	JAN 1,88	835	845	835	1530	2	0.8	2	75290	2	1	17		N
JAN 3,88	JAN 2,88	850	845	200	600	2	0.7	2	75291	2	1	69		
JAN 5,88	JAN 3,88	850	845	830	1530	2	4.0	2	75292	2	1	52		Y2
JAN 6,88	JAN 5,88	850	845	1200	1615	2	1.3	2	75293	2	1	8		N
JAN 7,88	JAN 6,88	850	845	****	****	2	0.4	2	75294	2	1	****	E	N
JAN 9,88	JAN 8,88	845	820	1835	400	2	3.6	2	75295	2	1	61		
JAN 10,88	JAN 9,88	825	830	825	1630	2	0.1	2	75296	2	1	****	E	N
JAN 14,88	JAN 13,88	830	830	1135	1515	2	0.9	2	75297	2	1	22		N
JAN 16,88	JAN 15,88	830	825	2130	2300	2	0.2	2	75298	2	1	****	E	N
JAN 18,88	JAN 17,88	830	830	200	815	1	1.4	1	75299	2	1	135		N
JAN 19,88	JAN 18,88	840	855	1425	600	3	8.5	2	75300	2	1	73		
JAN 21,88	JAN 20,88	830	825	2350	400	3	2.3	2	75301	2	1	115	C	
JAN 22,88	JAN 21,88	840	835	920	1525	3	0.2	2	75302	2	1	****	E	N
JAN 25,88	JAN 24,88	830	850	1130	1915	2	1.7	2	75303	2	1	40		N
JAN 26,88	JAN 25,88	855	840	2030	840	2	12.2	2	75304	2	1	79		
JAN 27,88	JAN 26,88	850	900	850	1930	2	1.6	2	75306	2	1	27		N
JAN 29,88	JAN 27,88	905	845	1830	500	2	0.3	2	75307	2	1	****	E	NY2
JAN 30,88	JAN 29,88	850	835	400	600	2	0.2	2	75308	2	1	****	E	N
JAN 31,88	JAN 30,88	840	835	2000	200	1	0.4	1	75309	2	1	105		
FEB 1,88	JAN 31,88	845	825	2235	2240	1	0.1	1	75310	2	1	****	E	N
FEB 2,88	FEB 1,88	830	825	1825	825	3	15.8	2	75311	2	1	87		
FEB 3,88	FEB 2,88	830	840	830	1100	2	0.9	2	75313	2	1	32		N
FEB 4,88	FEB 3,88	845	825	200	825	2	8.2	2	75314	2	1	30		N
FEB 5,88	FEB 4,88	835	900	835	1530	2	4.2	2	75315	2	1	53		
FEB 7,88	FEB 6,88	830	830	2100	200	2	0.6	2	75316	2	1	****	E	N
FEB 8,88	FEB 7,88	840	825	715	825	2	1.6	2	75317	2	1	7		XN
FEB 9,88	FEB 8,88	830	825	830	840	2	0.1	2	75318	2	1	****	E	N
FEB 10,88	FEB 9,88	830	840	2215	840	2	2.8	2	75319	2	1	29		N
FEB 11,88	FEB 10,88	845	830	845	1330	2	0.1	*	75320	2	1	****	E	N
FEB 12,88	FEB 11,88	835	820	525	820	2	0.5	2	75321	2	1	****	E	N
FEB 13,88	FEB 12,88	825	840	2100	840	2	15.6	2	75322	2	1	68		
FEB 14,88	FEB 13,88	845	825	845	2100	2	12.0	2	75323	2	1	18		N
FEB 15,88	FEB 14,88	830	830	655	705	2	0.1	2	75324	2	1	****	E	N
FEB 16,88	FEB 15,88	840	830	1010	1400	3	4.2	2	75325	2	1	24		N
FEB 17,88	FEB 16,88	840	800	840	1700	2	0.9	2	75326	2	1	****	E	N
FEB 18,88	FEB 17,88	805	840	805	1230	2	0.8	2	75327	2	1	31		XN
FEB 19,88	FEB 18,88	845	830	845	1000	2	0.1	2	75328	2	1	****	E	N
FEB 20,88	FEB 19,88	835	820	200	530	3	4.8	2	75329	2	1	62		
FEB 21,88	FEB 20,88	825	850	1825	745	3	0.2	2	75330	2	1	****	E	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROCHEM./7011

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 1,88	DEC 31,87	******	******	******	******	******	******	******	******
JAN 2,88	JAN 1,88	9.0	24.0	******	4.50	******	0.0551	2.50	0.58
JAN 3,88	JAN 2,88	31.0	40.0	******	4.12	******	0.1030	0.40	1.45
JAN 5,88	JAN 3,88	134.0	!IS ******	******	!IS ******	******	!IS ******	!IS ******	!IS ******
JAN 6,88	JAN 5,88	7.0	7.5	******	UG 7.21	******	0.0149	LG 0.20	<T 0.04
JAN 7,88	JAN 6,88	******	******	******	******	******	******	******	******
JAN 9,88	JAN 8,88	142.0	7.0	******	!IS ******	******	!IS ******	0.70	0.44
JAN 10,88	JAN 9,88	******	******	******	******	******	******	******	******
JAN 14,88	JAN 13,88	13.0	6.0	******	!IS ******	******	!IS ******	1.05	0.29
JAN 16,88	JAN 15,88	******	******	******	******	******	******	******	******
JAN 18,88	JAN 17,88	122.0	!IS ******	******	!IS ******	******	!IS ******	!IS ******	!IS ******
JAN 19,88	JAN 18,88	402.0	23.5	******	4.26	******	0.0812	1.80	0.49
JAN 21,88	JAN 20,88	171.0	46.0	******	4.02	******	0.1340	3.95	0.96
JAN 22,88	JAN 21,88	******	******	******	******	******	******	******	******
JAN 25,88	JAN 24,88	44.0	33.0	******	!IS ******	******	!IS ******	1.15	0.96
JAN 26,88	JAN 25,88	621.0	5.0	******	!IS ******	******	!IS ******	0.40	0.17
JAN 27,88	JAN 26,88	28.0	3.0	******	!IS ******	******	!IS ******	0.60	0.11
JAN 29,88	JAN 27,88	******	******	******	******	******	******	******	******
JAN 30,88	JAN 29,88	******	******	******	******	******	******	******	******
JAN 31,88	JAN 30,88	27.0	> 100.0	******	LG 3.60	******	UG 0.3070	UG 8.90	3.10
FEB 1,88	JAN 31,88	******	******	******	******	******	******	******	******
FEB 2,88	FEB 1,88	890.0	30.0	******	4.24	******	0.0827	2.20	0.54
FEB 3,88	FEB 2,88	19.0	3.5	******	UG 6.23	******	0.0167	<T 0.10	<T 0.02
FEB 4,88	FEB 3,88	162.0	14.0	******	4.58	******	0.0446	<T 0.15	0.43
FEB 5,88	FEB 4,88	143.0	16.0	******	4.51	******	0.0492	0.45	0.40
FEB 7,88	FEB 6,88	******	******	******	******	******	******	******	******
FEB 8,88	FEB 7,88	8.0	******	******	******	******	******	******	******
FEB 9,88	FEB 8,88	******	******	******	******	******	******	******	******
FEB 10,88	FEB 9,88	53.0	91.0	******	3.75	******	0.2080	2.90	2.75
FEB 11,88	FEB 10,88	******	******	******	******	******	******	******	******
FEB 12,88	FEB 11,88	******	******	******	******	******	******	******	******
FEB 13,88	FEB 12,88	680.0	5.5	******	<=> 5.00	******	0.0242	<T 0.25	0.11
FEB 14,88	FEB 13,88	139.0	10.5	******	4.79	******	0.0347	0.40	0.30
FEB 15,88	FEB 14,88	******	******	******	******	******	******	******	******
FEB 16,88	FEB 15,88	67.0	28.0	******	4.26	******	0.0773	2.10	0.39
FEB 17,88	FEB 16,88	******	******	******	******	******	******	******	******
FEB 18,88	FEB 17,88	16.0	******	******	******	******	******	******	******
FEB 19,88	FEB 18,88	******	******	******	******	******	******	******	******
FEB 20,88	FEB 19,88	191.0	11.5	******	4.68	******	0.0388	1.05	0.07
FEB 21,88	FEB 20,88	******	******	******	******	******	******	******	******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROCHEM./7011

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 1,88	DEC 31,87	******	******	******	******	******	******	******
JAN 2,88	JAN 1,88	!IS ******	0.16	!IS ******	!IS ******	!IS ******	0.635	0.0316
JAN 3,88	JAN 2,88	!IS ******	0.67	!IS ******	!IS ******	!IS ******	0.035	0.0759
JAN 5,88	JAN 3,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	0.030	!IS ******
JAN 6,88	JAN 5,88	!IS ******	0.21	!IS ******	!IS ******	!IS ******	<T 0.020	UG 0.0001
JAN 7,88	JAN 6,88	******	******	******	******	******	******	******
JAN 9,88	JAN 8,88	!IS ******	0.24	!IS ******	!IS ******	!IS ******	<T 0.020	!IS ******
JAN 10,88	JAN 9,88	******	******	******	******	******	******	******
JAN 14,88	JAN 13,88	!IS ******	0.18	!IS ******	!IS ******	!IS ******	0.100	!IS ******
JAN 16,88	JAN 15,88	******	******	******	******	******	******	******
JAN 18,88	JAN 17,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	0.160	!IS ******
JAN 19,88	JAN 18,88	<T 0.10	0.14	<T 0.010	0.040	0.200	0.080	0.0550
JAN 21,88	JAN 20,88	0.44	0.35	0.040	0.100	0.500	0.200	0.0955
JAN 22,88	JAN 21,88	******	******	******	******	******	******	******
JAN 25,88	JAN 24,88	0.22	0.32	<T 0.020	0.030	0.115	0.060	!IS ******
JAN 26,88	JAN 25,88	<W 0.02	0.07	<W 0.005	<T 0.005	0.035	<W 0.005	!IS ******
JAN 27,88	JAN 26,88	0.30	0.19	0.035	<T 0.015	0.115	<W 0.005	!IS ******
JAN 29,88	JAN 27,88	******	******	******	******	******	******	******
JAN 30,88	JAN 29,88	******	******	******	******	******	******	******
JAN 31,88	JAN 30,88	!IS ******	UG 1.48	!IS ******	!IS ******	!IS ******	0.270	LG 0.2512
FEB 1,88	JAN 31,88	******	******	******	******	******	******	******
FEB 2,88	FEB 1,88	0.14	0.06	<T 0.015	<T 0.005	0.035	0.280	0.0575
FEB 3,88	FEB 2,88	!IS ******	<T 0.02	!IS ******	!IS ******	!IS ******	0.990	UG 0.0006
FEB 4,88	FEB 3,88	<T 0.08	<T 0.04	<W 0.005	<W 0.005	0.025	<T 0.005	0.0263
FEB 5,88	FEB 4,88	<T 0.04	0.11	<W 0.005	<W 0.005	0.060	<T 0.010	0.0309
FEB 7,88	FEB 6,88	******	******	******	******	******	******	******
FEB 8,88	FEB 7,88	******	******	******	******	******	******	******
FEB 9,88	FEB 8,88	******	******	******	******	******	******	******
FEB 10,88	FEB 9,88	!IS ******	0.62	!IS ******	!IS ******	!IS ******	0.510	0.1778
FEB 11,88	FEB 10,88	******	******	******	******	******	******	******
FEB 12,88	FEB 11,88	******	******	******	******	******	******	******
FEB 13,88	FEB 12,88	<T 0.04	<T 0.04	<W 0.005	<W 0.005	0.030	<T 0.020	<=> 0.0100
FEB 14,88	FEB 13,88	0.18	0.07	<T 0.005	<T 0.005	0.030	<T 0.010	0.0162
FEB 15,88	FEB 14,88	******	******	******	******	******	******	******
FEB 16,88	FEB 15,88	0.12	0.14	<T 0.010	<T 0.010	0.045	0.160	0.0550
FEB 17,88	FEB 16,88	******	******	******	******	******	******	******
FEB 18,88	FEB 17,88	******	******	******	******	******	******	******
FEB 19,88	FEB 18,88	******	******	******	******	******	******	******
FEB 20,88	FEB 19,88	<T 0.02	<T 0.03	<W 0.005	<T 0.005	<W 0.005	0.050	0.0209
FEB 21,88	FEB 20,88	******	******	******	******	******	******	******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROCHEM./7011

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI-ENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
FEB 23,88	FEB 22,88	820	820	645	820	3	0.8	2	75331	2	1	54		
FEB 24,88	FEB 23,88	825	820	825	1630	3	7.3	2	75333	2	1	90		
FEB 25,88	FEB 24,88	830	815	2300	500	2	1.2	2	75334	2	1	45	C	N
FEB 26,88	FEB 25,88	820	835	1230	1515	2	0.3	2	75335	2	1	****	E	N
MAR 1,88	FEB 29,88	830	850	1915	2030	2	2.0	2	75336	2	1	39		N
MAR 3,88	MAR 2,88	820	820	2040	500	2	3.2	2	75337	2	1	81		
MAR 4,88	MAR 3,88	825	830	825	1130	2	0.1	2	75338	2	1	****	E	N
MAR 5,88	MAR 4,88	835	825	835	1130	2	0.1	2	75339	2	1	****	E	N
MAR 8,88	MAR 7,88	825	825	1045	1245	2	0.7	2	75340	2	1	55	E	
MAR 10,88	MAR 9,88	830	810	1235	2300	1	16.0	2	75341	2	1	104		
MAR 13,88	MAR 10,88	815	815	300	815	3	2.9	2	75343	2	1	93		Y3
MAR 14,88	MAR 13,88	820	815	820	1545	3	2.4	2	75344	2	1	102	C	
MAR 15,88	MAR 14,88	820	825	820	1750	2	2.8	2	75345	2	1	33		N
MAR 16,88	MAR 15,88	830	820	1900	800	2	6.2	2	75346	2	1	67	C	
MAR 19,88	MAR 18,88	830	825	200	700	2	0.1	2	75347	2	1	****	E	N
MAR 20,88	MAR 19,88	835	830	400	830	2	1.4	2	75348	2	1	56	C	
MAR 21,88	MAR 20,88	835	830	835	1300	2	0.5	2	75349	2	1	****	E	N
MAR 24,88	MAR 23,88	830	825	300	600	1	0.1	1	75351	2	1	****	E	N
MAR 25,88	MAR 24,88	830	810	745	810	1	0.2	1	75352	2	1	****	E	N
MAR 26,88	MAR 25,88	815	840	300	840	1	15.0	1	75353	2	1	101		
MAR 27,88	MAR 26,88	850	840	400	840	1	8.2	1	75354	2	1	95		
MAR 28,88	MAR 27,88	845	825	845	1530	3	7.0	2	75355	2	1	90		
MAR 29,88	MAR 28,88	830	800	830	930	2	0.1	2	75356	2	1	****	E	N
APR 2,88	APR 1,88	815	830	1805	1920	1	0.1	1	75357	2	1	****	E	N
APR 3,88	APR 2,88	835	805	620	640	1	0.1	1	75358	2	1	****	E	N
APR 4,88	APR 3,88	810	830	130	500	1	5.0	1	75359	2	1	101		X
APR 5,88	APR 4,88	835	845	835	1515	1	6.3	1	75360	2	1	97		
APR 9,88	APR 8,88	815	820	1200	1230	1	0.1	1	75361	2	1	****	E	N
APR 11,88	APR 10,88	845	800	400	615	1	0.4	1	75362	2	1	****	E	N
APR 15,88	APR 11,88	805	820	2230	100	1	1.0	1	75363	2	1	90		Y4
APR 16,88	APR 15,88	825	840	825	1710	3	10.8	2	75364	2	1	96		M
APR 17,88	APR 16,88	845	845	2000	500	2	20.2	2	75365	2	1	86		
APR 18,88	APR 17,88	850	820	300	745	1	2.4	1	75366	2	1	96		
APR 19,88	APR 18,88	825	820	825	1030	1	4.2	1	75367	2	1	82		
APR 20,88	APR 19,88	825	830	300	825	2	0.4	2	75369	2	1	****	E	N
APR 21,88	APR 20,88	835	830	900	1500	2	0.2	2	75370	2	1	****	E	N
APR 23,88	APR 22,88	845	850	845	1430	3	5.0	2	75372	2	1	111		HCM
APR 24,88	APR 23,88	855	835	1710	835	1	9.8	1	75373	2	1	103		
APR 25,88	APR 24,88	840	810	840	600	1	7.6	1	75374	2	1	80	C	
APR 26,88	APR 25,88	815	750	1400	1615	1	2.2	1	75375	2	1	83		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROCHEM./7011

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
FEB 23,88	FEB 22,88	28.0	22.5	******	4.46	******	0.0576	1.90	0.63
FEB 24,88	FEB 23,88	422.0	23.5	******	4.46	******	0.0603	1.55	0.58
FEB 25,88	FEB 24,88	35.0	50.5	******	4.17	******	0.1070	2.05	1.76
FEB 26,88	FEB 25,88	******	******	******	******	******	******	******	******
MAR 1,88	FEB 29,88	51.0	37.5	******	4.41	******	0.0711	3.70	1.09
MAR 3,88	MAR 2,88	167.0	73.0	******	4.04	******	0.1450	3.80	2.15
MAR 4,88	MAR 3,88	******	******	******	******	******	******	******	******
MAR 5,88	MAR 4,88	******	******	******	******	******	******	******	******
MAR 8,88	MAR 7,88	25.0	******	******	******	******	******	******	******
MAR 10,88	MAR 9,88	1069.0	46.0	******	4.11	******	0.1200	3.65	0.66
MAR 13,88	MAR 10,88	174.0	41.0	******	4.12	******	0.1010	1.35	1.35
MAR 14,88	MAR 13,88	157.0	46.5	******	4.05	******	0.1170	2.45	1.10
MAR 15,88	MAR 14,88	60.0	44.5	******	4.08	******	0.1100	1.85	1.22
MAR 16,88	MAR 15,88	269.0	18.5	******	4.55	******	0.0503	1.15	0.46
MAR 19,88	MAR 18,88	******	******	******	******	******	******	******	******
MAR 20,88	MAR 19,88	51.0	21.5	******	4.46	******	0.0547	0.75	0.68
MAR 21,88	MAR 20,88	******	******	******	******	******	******	******	******
MAR 24,88	MAR 23,88	******	******	******	******	******	******	******	******
MAR 25,88	MAR 24,88	******	******	******	******	******	******	******	******
MAR 26,88	MAR 25,88	978.0	12.5	******	4.66	******	0.0387	1.10	0.24
MAR 27,88	MAR 26,88	501.0	14.0	******	4.55	******	0.0436	1.05	0.25
MAR 28,88	MAR 27,88	407.0	20.5	******	4.43	******	0.0574	2.10	0.34
MAR 29,88	MAR 28,88	******	******	******	******	******	******	******	******
APR 2,88	APR 1,88	******	******	******	******	******	******	******	******
APR 3,88	APR 2,88	******	******	******	******	******	******	******	******
APR 4,88	APR 3,88	324.0	******	******	******	******	******	******	******
APR 5,88	APR 4,88	394.0	!IS ******	******	4.34	******	0.0824	!IS ******	!IS ******
APR 9,88	APR 8,88	******	******	******	******	******	******	******	******
APR 11,88	APR 10,88	******	******	******	******	******	******	******	******
APR 15,88	APR 11,88	58.0	!IS ******	******	3.70	******	UG 0.3140	!IS ******	!IS ******
APR 16,88	APR 15,88	666.0	42.0	******	4.19	******	0.1090	2.30	1.01
APR 17,88	APR 16,88	1114.0	15.0	******	4.64	******	0.0498	1.35	0.32
APR 18,88	APR 17,88	148.0	68.0	******	4.28	******	0.1120	UG 9.10	2.14
APR 19,88	APR 18,88	221.0	36.0	******	4.43	******	0.0752	4.80	0.61
APR 20,88	APR 19,88	******	******	******	******	******	******	******	******
APR 21,88	APR 20,88	******	******	******	******	******	******	******	******
APR 23,88	APR 22,88	357.0	7.0	******	UG 6.05	******	0.0189	1.15	0.15
APR 24,88	APR 23,88	652.0	25.5	******	4.29	******	0.0746	2.45	0.55
APR 25,88	APR 24,88	393.0	29.0	******	4.20	******	0.0862	2.35	0.48
APR 26,88	APR 25,88	118.0	11.5	******	UG 6.87	******	0.0166	1.80	0.23

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROCHEM./7011 PAGE : 6

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
FEB 23,88	FEB 22,88	0.56	0.18	0.065	<T 0.020	0.100	0.330	0.0347
FEB 24,88	FEB 23,88	0.28	0.16	0.035	<T 0.015	0.200	0.220	0.0347
FEB 25,88	FEB 24,88	!IS ******	0.72	!IS ******	!IS ******	!IS ******	0.130	0.0676
FEB 26,88	FEB 25,88	******	******	******	******	******	******	******
MAR 1,88	FEB 29,88	!IS ******	0.30	!IS ******	!IS ******	!IS ******	!IS ******	0.0389
MAR 3,88	MAR 2,88	1.10	0.76	0.120	0.055	0.370	1.190	0.0912
MAR 4,88	MAR 3,88	******	******	******	******	******	******	******
MAR 5,88	MAR 4,88	******	******	******	******	******	******	******
MAR 8,88	MAR 7,88	******	******	******	******	******	******	******
MAR 10,88	MAR 9,88	0.12	0.09	<T 0.010	<T 0.010	0.045	0.320	0.0776
MAR 13,88	MAR 10,88	0.50	0.16	0.050	<T 0.010	0.060	0.200	0.0759
MAR 14,88	MAR 13,88	0.12	0.13	<T 0.005	<T 0.005	0.035	0.410	0.0891
MAR 15,88	MAR 14,88	!IS ******	0.16	!IS ******	!IS ******	!IS ******	!IS ******	0.0832
MAR 16,88	MAR 15,88	0.12	0.10	<W 0.005	<T 0.010	0.045	0.270	0.0282
MAR 19,88	MAR 18,88	******	******	******	******	******	******	******
MAR 20,88	MAR 19,88	!IS ******	0.20	!IS ******	!IS ******	!IS ******	LG 0.005	0.0347
MAR 21,88	MAR 20,88	******	******	******	******	******	******	******
MAR 24,88	MAR 23,88	******	******	******	******	******	******	******
MAR 25,88	MAR 24,88	******	******	******	******	******	******	******
MAR 26,88	MAR 25,88	<T 0.04	0.15	<T 0.010	<T 0.015	0.125	0.120	0.0219
MAR 27,88	MAR 26,88	<W 0.02	<T 0.03	<W 0.005	<T 0.010	<T 0.025	0.090	0.0282
MAR 28,88	MAR 27,88	<W 0.02	<T 0.02	<W 0.005	<T 0.010	<T 0.025	0.330	0.0372
MAR 29,88	MAR 28,88	******	******	******	******	******	******	******
APR 2,88	APR 1,88	******	******	******	******	******	******	******
APR 3,88	APR 2,88	******	******	******	******	******	******	******
APR 4,88	APR 3,88	******	******	******	******	******	******	******
APR 5,88	APR 4,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	0.0457
APR 9,88	APR 8,88	******	******	******	******	******	******	******
APR 11,88	APR 10,88	******	******	******	******	******	******	******
APR 15,88	APR 11,88	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	!IS ******	0.1995
APR 16,88	APR 15,88	<T 0.02	0.24	<T 0.010	<T 0.015	0.070	0.380	0.0646
APR 17,88	APR 16,88	<W 0.02	<T 0.03	<W 0.005	<W 0.005	<T 0.025	0.330	0.0229
APR 18,88	APR 17,88	1.90	0.30	0.365	0.075	0.055	2.000	0.0525
APR 19,88	APR 18,88	0.32	0.06	0.045	0.030	<T 0.025	1.080	0.0372
APR 20,88	APR 19,88	******	******	******	******	******	******	******
APR 21,88	APR 20,88	******	******	******	******	******	******	******
APR 23,88	APR 22,88	0.12	<T 0.02	<T 0.010	<T 0.005	<T 0.020	0.310	UG 0.0009
APR 24,88	APR 23,88	0.18	0.05	<T 0.020	<T 0.010	<T 0.010	0.400	0.0513
APR 25,88	APR 24,88	<T 0.02	<T 0.03	<W 0.005	<T 0.010	<W 0.005	0.260	0.0631
APR 26,88	APR 25,88	0.78	0.09	0.055	<T 0.025	0.080	0.380	UG 0.0001